

US009082260B2

## (12) United States Patent Kelly et al.

#### (54) NETWORKED GAMING SYSTEM COMMUNICATION PROTOCOLS AND METHODS

(75) Inventors: Bryan M Kelly, Alamo, CA (US);

Gennady Soliterman, San Ramon, CA (US); Reddy Rupanagudi, Pleasanton, CA (US); Dennis Lockard, Tracy, CA (US); Jeffrey Tallcott, Pleasanton, CA (US); John Kroeckel, San Ramon, CA

(US)

(73) Assignee: Bally Gaming, Inc., Las Vegas, NV

(US)

(\*) Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 1274 days.

(21) Appl. No.: 12/291,846

(22) Filed: Nov. 12, 2008

(65) **Prior Publication Data** 

US 2009/0270174 A1 Oct. 29, 2009

#### Related U.S. Application Data

(63) Continuation-in-part of application No. 11/938,644, filed on Nov. 12, 2007, which is a continuation-in-part of application No. 11/938,666, filed on Nov. 12, 2007, and a continuation-in-part of application No. 11/470,606, filed on Sep. 6, 2006, and a continuation-in-part of application No. 10/943,771, filed on Sep. 16, 2004, said application No. 11/938,644 is a continuation-in-part of application No.

(Continued)

(51) **Int. Cl.** 

**G06F 17/00** (2006.01) **G07F 17/32** (2006.01)

(52) U.S. Cl.

CPC ...... *G07F 17/3267* (2013.01)

(10) **Patent No.:** 

US 9,082,260 B2

(45) **Date of Patent:** 

Jul. 14, 2015

#### (58) Field of Classification Search

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

| 3,662,105 A | 5/1972  | Hurst et al.        |
|-------------|---------|---------------------|
| 4,448,419 A | 5/1984  | Telnaes             |
| 4,676,506 A | 6/1987  | Crouch              |
| 4,718,672 A | 1/1988  | Okada               |
| 4,837,728 A | 6/1989  | Barrie et al.       |
| 4,856,787 A | 8/1989  | Itkis               |
| 4,948,134 A | 8/1990  | Suttle et al.       |
| 5,083,271 A | 1/1992  | Thacher et al.      |
| 5,332,219 A | 7/1994  | Marnell, II et al.  |
| 5,342,047 A | 8/1994  | Heidel et al.       |
| 5,393,057 A | 2/1995  | Marnell, II         |
| 5,429,361 A | 7/1995  | Raven et al.        |
| 5,564,700 A | 10/1996 | Celona              |
| 5,575,717 A | 11/1996 | Houriet, Jr. et al. |
| 5,599,231 A | 2/1997  | Hibino et al.       |
| 5,643,086 A | 7/1997  | Alcorn et al.       |
|             | (Con    | tinued)             |

#### FOREIGN PATENT DOCUMENTS

AU 704691 4/1997 EP 0769769 4/1997

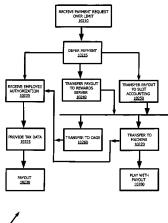
(Continued)

Primary Examiner — Reginald Renwick (74) Attorney, Agent, or Firm — Paul Hickman; Marvin A. Hein; Philip J. Anderson

#### (57) ABSTRACT

A system, method and apparatus for a gaming system is provided. The gaming system includes a rewards server and a separate gaming or slot accounting server. The system may further include a separate player tracking server. The system further includes one or more game machines. The game machines may include a base game, rewards tracking module, and a game management module. Further details will be apparent from the description, drawings and claims.

#### 11 Claims, 169 Drawing Sheets





#### Related U.S. Application Data

11/470,606, filed on Sep. 6, 2006, and a continuation-in-part of application No. 10/943,771, filed on Sep. 16, 2004.

(60) Provisional application No. 60/865,649, filed on Nov. 14, 2006, provisional application No. 60/987,234, filed on Nov. 12, 2007, provisional application No. 60/987,274, filed on Nov. 12, 2007, provisional application No. 60/987,259, filed on Nov. 12, 2007, provisional application No. 60/987,266, filed on Nov. 12, 2007, provisional application No. 60/987,402, filed on Nov. 12, 2007.

#### (56) References Cited

#### U.S. PATENT DOCUMENTS

5,655,961 A 8/1997 Acres et al. 5,664,999 A 9/1997 Kurihara 5,702,304 A 12/1997 Acres et al. 5,725,428 A 3/1998 Achmuler 5,741,183 A 4/1998 Acres et al. 5/1998 5,752,882 A Acres et al. 6/1998 Pease et al. 5,759,102 A 5,769,716 A 6/1998 Saffari et al 5,770,533 A 6/1998 Franchi 5,772,213 A 6/1998 McGlew 5,779,545 A 7/1998 Berg et al. 5,779,549 A 7/1998 Walker et al. 5,796,389 A 8/1998 Bertram et al. 9/1998 5,809,482 A Strisower 5,816,918 A 10/1998 Kelly et al. 5,820,459 A 10/1998 Acres et al. 5,833,536 A 11/1998 Davids et al. 5,833,540 A 11/1998 Miodunski et al. 5,836,817 A 11/1998 Acres et al. 5,851,148 A 12/1998 Brune et al. 5,855,516 A 1/1999 Eiba. 5,860,862 A 1/1999 Junkin 3/1999 5,876,284 A Acres et al. 5,885,158 A 3/1999 Torango et al. 5,919,091 A 7/1999 Bell et al. 5,935,002 A 8/1999 Falciglia 5,951,397 A 9/1999 Dickinson 5,967,896 A 10/1999 Jorasch et al. 5,973,696 A 10/1999 Agranat et al. 5,984,779 A 11/1999 Bridgeman et al. 12/1999 6,008,784 A Acres et al. 6,010,404 A 1/2000 Walker et al. 6,014,664 A 1/2000 Fagin et al. 6,015,346 A 1/2000 Bennet 6,039,648 A 3/2000 Guinn et al. 6,041,347 A 3/2000 Harsham et al. 6,068,552 A 5/2000 Walker et al. 6,071,190 A 6,077,163 A 6/2000 Weiss et al. Walker et al 6/2000 6,083,105 A 7/2000 Ronin et al. 6,089,975 A 7/2000 Dunn 6,093,100 A 7/2000 Singer et al. 6,102,394 A 8/2000 Wurz et al. 6,102,798 A 8/2000 Bennet 6,110,041 A 8/2000 Walker et al. 6.113.495 A 9/2000 Walker et al. 6,135,884 A 10/2000 Hedrick et al. 6,146,273 A 6,149,522 A 11/2000 Olsen 11/2000 Alcorn et al. 6,159,097 A 12/2000 Gura 6,162,122 A 12/2000 Acres et al. 6,203,428 B1 3/2001 Giobbi et al. 6,203,430 B1 3/2001 Walker et al. 6.224.486 B1 5/2001 Walker et al. 6,244,958 B1 6/2001 Acres 6,254,483 B1 7/2001Acres 6,257,981 B1 7/2001Acres et al. 6,267,675 B1 7/2001 Lee

6,280,328 B1 8/2001 Holch et al. 6,293,866 B1 9/2001 Walker et al. 6,302,790 B1 10/2001 Brossard 6,312,333 B1 11/2001 Acres 6,315,666 B1 11/2001 Mastera et al. 6.319.125 B1 11/2001 Acres 6,319,127 B1 Walker et al. 11/2001 6.332.099 B1 12/2001 Heidel et al. 6,358,150 B1 3/2002 Mir et al. 6,364,765 B1 4/2002 Walker et al. 6,364,768 B1 4/2002 Acres et al. 6,364,769 B1 4/2002 Weiss et al. 6,371,852 B1 4/2002 Acres 6,375,567 B1 4/2002 Acres 6,375,569 B1 4/2002 Acres 6,409,602 B1 6/2002 Wiltshire et al. 6,425,828 B2 7/2002 Walker et al. 6,431,983 B2 8/2002 Acres 6,457,099 B1 9/2002 Gilbert RE37,885 E 10/2002 Acres et al. 6,488,585 B1 12/2002 Wells et al. 6,565,434 B1 5/2003 Acres 6,565,436 B1 5/2003 Baerlocher 6.569.017 B2 5/2003 Enzminger et al. 6,595,856 B1 6,607,441 B1 Ginsburg et al. 7/2003 8/2003 Acres 6,645,077 B2 11/2003 Rowe 6,652,378 B2 11/2003 Cannon et al. 6,682,423 B2 1/2004 Brosnan et al. Kirmse et al. 6,699,125 B2 3/2004 6,712,697 B2 3/2004 Acres 6,712,698 B2 6,712,702 B2 3/2004 Paulsen et al. Goldberg et al. 3/2004 6,722,985 B2 4/2004 Criss-Puszkiewicz et al. 6,722,986 B1 4/2004 Lyons et al. 6,749,510 B2 6/2004 Globbi 6,749,511 B2 6/2004 Day 6,769,986 B2 8/2004 Vancura 6,780,111 B2 8/2004 Cannon et al. 6,800,030 B2 10/2004 Acres 6,832,956 B1 6,832,958 B2 Boyd et al. 12/2004 12/2004 Acres et al. 6,843,724 B2 1/2005 Walker et al. 6,860,810 B2 3/2005 Cannon et al. 6,866,586 B2 3/2005 Oberberger et al. 6,884,167 B2 4/2005 Walker et al. 6,884,174 B2 4/2005 Lundy et al. 6,887,154 B1 5/2005 Luciano et al. 6,892,938 B2 5/2005 Solomon 6,908,391 B2 6/2005 Gatto et al. 6,910,964 B2 6/2005 Acres 6,916,247 B2 7/2005 Gatto et al. 6,935,957 B1 8/2005 Yates et al. 6,945,870 B2 9/2005 Gatto et al. RE38,812 E 10/2005 Acres et al. 6,996,444 B2 2/2006 Ach, III 7,007,278 B2 2/2006 Gungabeesoon 7,025,674 B2 4/2006 Adams et al. 7,043,641 B1 7,070,506 B1 5/2006 Martinek et al. 7/2006 Ropp et al. 7,093,040 B1 8/2006 Mach 7,103,650 B1 9/2006 Vetrivelkumaran et al. 7,111,845 B2 9/2006 Walker et al. 7,112,138 B2 9/2006 Hedrick et al D531,333 S 10/2006 Acres et al. 7,124,413 B1 10/2006 Klemm et al. 7,169,051 B1 1/2007 Mossbarger 7,192,352 B2 3/2007 Walker et al 7,201,662 B2 4/2007 LeMay et al. Souza et al. 7,278,919 B2 10/2007 7.290.072 B2 10/2007 Ouraishi et al. 7,291,068 B2 11/2007 Bryant et al. 7,296,007 B1 11/2007 Funge et al. 7,297,062 B2 11/2007 Gatto et al. 7,393,280 B2 7/2008 Cannon 7,416,489 B2 8/2008 Smith, III 7,473,174 B2 1/2009 Cuddy et al. 7.542.487 B2 6/2009 Gatto et al. 7,654,897 B2 2/2010 Devaull et al.

# US 9,082,260 B2 Page 3

| (56)                                | Referen            | nces Cited                        | 2005/0003878                 |                |         | Updike                          |
|-------------------------------------|--------------------|-----------------------------------|------------------------------|----------------|---------|---------------------------------|
| IIS                                 | PATENT             | DOCUMENTS                         | 2005/0009599<br>2005/0020340 |                | 1/2005  | Ryan<br>Cannon                  |
| 0.6.                                | 111111111          | Bocomeris                         | 2005/0032573                 |                |         | Acres et al.                    |
| 7,780,516 B2                        |                    | Gauselmann                        | 2005/0043088                 |                |         | Nguyen et al.                   |
| 7,780,525 B2<br>7,798,901 B2        |                    | Walker et al.<br>Nguyen et al.    | 2005/0043094                 |                |         | Nguyen et al.                   |
| 7,798,901 B2<br>7,867,082 B2        |                    | Vali-Tepper                       | 2005/0054419<br>2005/0054439 |                | 3/2005  | Souza et al.<br>Rowe et al.     |
| 7,874,906 B2                        |                    | Tulley et al.                     | 2005/0059496                 |                |         | Hanchar                         |
| 7,878,899 B2                        |                    | Duhamel et al.                    | 2005/0107164                 |                | 5/2005  | Muir et al.                     |
| 7,896,735 B2<br>7,950,999 B2        |                    | Kelly et al.<br>Morrow et al.     | 2005/0113162                 |                |         | Olive et al.                    |
| 7,963,843 B2 *                      |                    | Martin et al 463/25               | 2005/0137017<br>2005/0141509 |                |         | Lechner et al. Rabie et al.     |
| 7,993,197 B2                        |                    | Kaminkow                          | 2005/0170884                 |                | 8/2005  |                                 |
| 8,202,165 B2<br>8,210,927 B2        |                    | Duhamel<br>Hedrick                | 2005/0172336                 | A1             |         | Gatto et al.                    |
| 8,529,349 B2                        |                    | Kelly et al.                      | 2005/0181873                 |                | 8/2005  |                                 |
| 8,678,902 B2                        | 3/2014             | Kelly et al.                      | 2005/0209006                 |                |         | Gatto et al.                    |
| 2001/0007828 A1<br>2001/0031654 A1  |                    | Walker et al.<br>Walker et al.    | 2005/0209007<br>2005/0221882 |                |         | Gatto et al. Nguyen et al.      |
| 2001/0031634 A1<br>2001/0044339 A1  |                    | Cordero et al.                    | 2005/0221898                 |                |         | Gatto et al.                    |
| 2001/0046893 A1                     | 11/2001            | Giobbi et al.                     | 2005/0223219                 |                |         | Gatto et al.                    |
| 2002/0002075 A1                     | 1/2002             |                                   | 2005/0233794                 |                |         | Cannon et al.                   |
| 2002/0016206 A1<br>2002/0025846 A1  |                    | Yoshimi et al.<br>Bennett et al.  | 2005/0233811<br>2005/0239546 |                |         | Gatto et al.<br>Hedrick et al.  |
| 2002/0039923 A1                     |                    | Cannon et al.                     | 2005/0259340                 |                |         | Smolucha                        |
| 2002/0065136 A1                     | 5/2002             |                                   | 2005/0277472                 |                |         | Gillan et al.                   |
| 2002/0111206 A1                     | 8/2002<br>8/2002   | Van Baltz et al.                  | 2005/0278041                 |                |         | Bortnik et al.                  |
| 2002/0119824 A1<br>2002/0142825 A1  |                    | Lark et al.                       | 2005/0282637                 |                |         | Gatto et al.                    |
| 2002/0142842 A1                     |                    | Easley et al.                     | 2006/0030960<br>2006/0046819 |                |         | Duhamel et al.<br>Nguyen et al. |
| 2002/0142846 A1                     |                    | Paulsen                           | 2006/0068906                 |                |         | Morrow                          |
| 2002/0152120 A1<br>2002/0155879 A1  |                    | Howington<br>Walker et al.        | 2006/0073887                 |                |         | Nguyen et al.                   |
| 2002/0183105 A1                     |                    | Cannon et al.                     | 2006/0100010                 |                |         | Gatto et al.                    |
| 2002/0198052 A1                     |                    | Soltys et al.                     | 2006/0111178                 |                |         | Gallaway et al.                 |
| 2003/0013521 A1*<br>2003/0013532 A1 |                    | Cole et al 463/29<br>Rowe et al.  | 2006/0178202<br>2006/0258446 |                |         | Hughes et al.<br>Nguyen et al.  |
| 2003/0013332 A1<br>2003/0027631 A1  |                    | Hedrick et al.                    | 2006/0287046                 |                |         | Walker et al.                   |
| 2003/0032474 A1                     | 2/2003             | Kaminkow                          | 2006/0287100                 |                |         | Inubushi et al.                 |
| 2003/0054868 A1                     |                    | Paulsen et al.                    | 2007/0026941                 |                |         | Block et al.                    |
| 2003/0054878 A1<br>2003/0054881 A1  |                    | Benoy et al.<br>Hedrick et al.    | 2007/0099696<br>2007/0117608 |                |         | Nguyen et al 463/16             |
| 2003/0060247 A1                     |                    | Goldberg et al.                   | 2007/0155488                 |                |         | Kubota et al.                   |
| 2003/0060264 A1                     |                    | Chilton et al.                    | 2007/0167210                 |                |         | Kelly et al.                    |
| 2003/0060279 A1<br>2003/0064807 A1  |                    | Torango<br>Walker et al.          | 2007/0167226                 |                |         | Kelly et al.                    |
| 2003/0083943 A1                     |                    | Adams et al.                      | 2007/0232385<br>2007/0259709 |                | 10/2007 | Pace<br>Kelly et al.            |
| 2003/0093168 A1                     |                    | Nagaoka et al.                    | 2008/0051171                 |                |         | Lutnick et al.                  |
| 2003/0100372 A1<br>2003/0104860 A1  | 6/2003             | Gatto et al.<br>Cannon et al.     | 2008/0139283                 |                |         | Kelly et al.                    |
| 2003/0104300 A1<br>2003/0109307 A1  | 6/2003             |                                   | 2008/0254893                 |                |         | Patel et al.                    |
| 2003/0119573 A1                     |                    | McClintic                         | 2009/0069087                 |                |         | Kelly et al.<br>Ruymann 463/25  |
| 2003/0171149 A1<br>2003/0181241 A1  | 9/2003             | Rothschild<br>Oakes et al.        | 2009/0104979                 |                |         | Englman 403/23                  |
| 2003/0181241 A1<br>2003/0186745 A1  |                    | Nguyen et al.                     | 2009/0124362                 |                |         | Cuddy et al.                    |
| 2003/0190960 A1                     | 10/2003            | Jokipii et al.                    | 2009/0186691                 |                | 7/2009  |                                 |
| 2003/0236110 A1                     |                    | Beaulieu et al. Acres et al.      | 2009/0186692                 |                |         | Thomas et al.                   |
| 2004/0002378 A1<br>2004/0002383 A1  |                    | Lundy et al.                      | 2009/0197670<br>2009/0197671 |                |         | Kelly et al.<br>Kelly et al.    |
| 2004/0038733 A1                     |                    | Walker et al.                     | 2009/0197672                 |                |         | Kelly et al.                    |
| 2004/0053681 A1                     |                    | Jordan et al.                     | 2009/0209333                 | A1             |         | Kelly et al.                    |
| 2004/0054445 A1<br>2004/0064352 A1  |                    | Vollmer et al.<br>Gordon et al.   | 2009/0227362                 |                |         | Kelly et al.                    |
| 2004/0072618 A1                     |                    | Bartholomew et al.                | 2009/0227363                 |                |         | Kelly et al.                    |
| 2004/0100490 A1                     |                    | Boston et al.                     | 2009/0227364<br>2009/0247302 |                |         | Kelly et al. Kelly et al.       |
| 2004/0110555 A1<br>2004/0142750 A1  |                    | Devaull et al.<br>Glisson et al.  | 2009/0270174                 |                | 10/2009 | Kelly et al.                    |
| 2004/0142730 A1<br>2004/0147306 A1  |                    | Randall et al.                    | 2009/0270175                 |                | 10/2009 | Kelly et al.                    |
| 2004/0166940 A1                     | 8/2004             | Rothschild                        | 2010/0062843                 | A1             | 3/2010  | Gagner et al.                   |
| 2004/0198487 A1                     |                    | Schneider                         | _                            |                |         |                                 |
| 2004/0198496 A1<br>2004/0204233 A1* |                    | Gatto et al 463/25                | FO                           | REIGN          | N PATE  | NT DOCUMENTS                    |
| 2004/0214622 A1                     | 10/2004            | Atkinson                          | EP                           | 10049          | 970     | 5/2000                          |
| 2004/0224772 A1                     | 11/2004            | Canessa et al.                    | EP                           | 10749          |         | 2/2001                          |
| 2004/0229700 A1                     |                    | Cannon et al.                     | EP                           | 14324          | 186     | 10/2006                         |
| 2004/0230509 A1*<br>2004/0254013 A1 | 11/2004<br>12/2004 | Iddings 705/35<br>Quraishi et al. | GB<br>GB                     | 20422<br>21215 |         | 9/1980<br>7/1986                |
| 2004/0259640 A1                     |                    | Gentles et al.                    | GB<br>GB                     | 20927          |         | 7/2001                          |
|                                     |                    |                                   |                              |                |         |                                 |

### US 9,082,260 B2

Page 4

| (56)                           | Refere           | nces Cited    | WO<br>WO      | WO9623288<br>WO0007099 | 8/1996<br>2/2000 |
|--------------------------------|------------------|---------------|---------------|------------------------|------------------|
|                                | FOREIGN PATE     | ENT DOCUMENTS | WO            | WO2004004855           | 1/2004           |
|                                |                  |               | WO            | WO2004024260           | 3/2004           |
| JP                             | 07059944         | 3/1995        | WO            | WO2006033931           | 3/2006           |
| JP 2003190588<br>JP 2003190589 | 8/2003<br>8/2003 | * cited       | l by examiner |                        |                  |

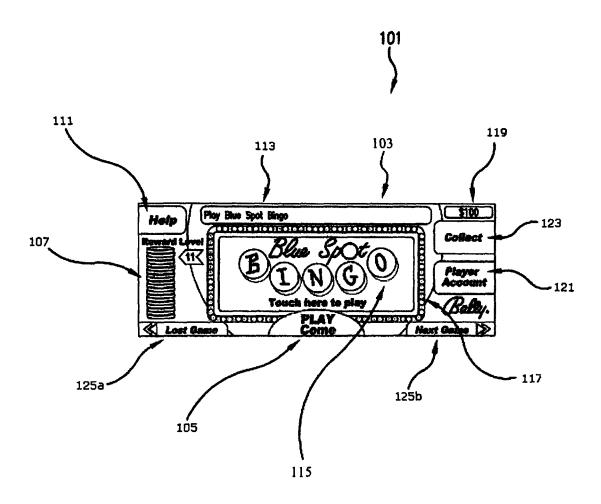
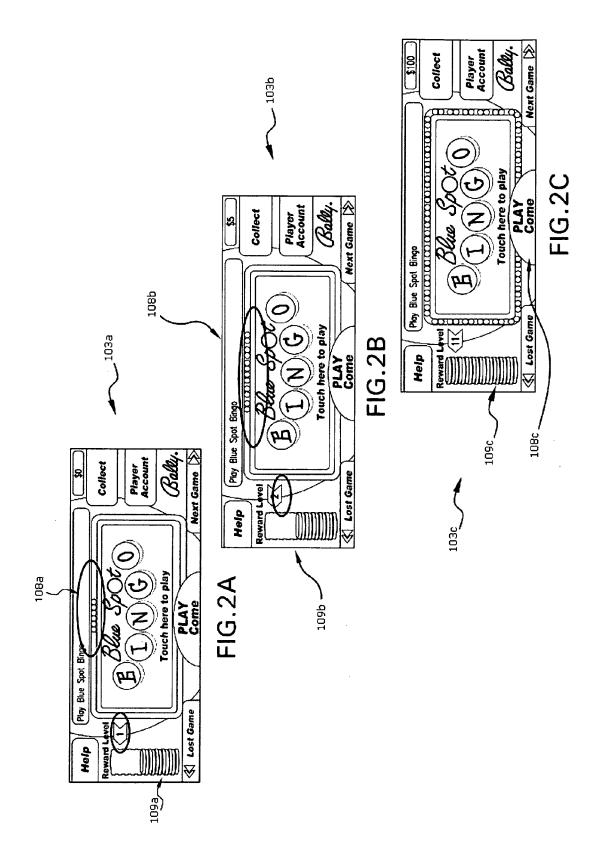
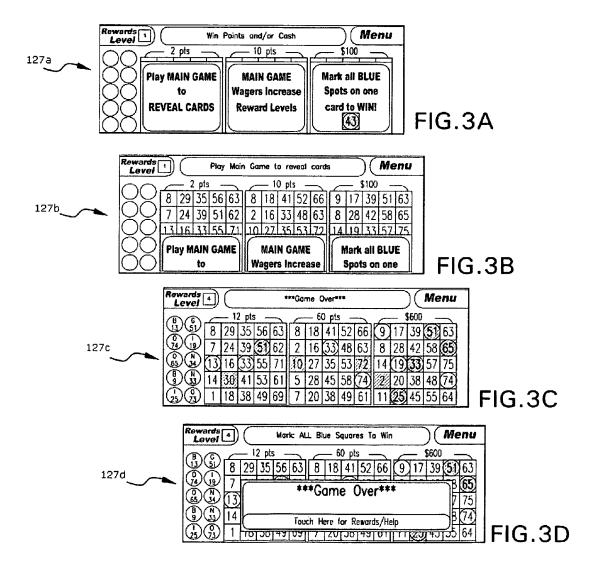


FIG.1





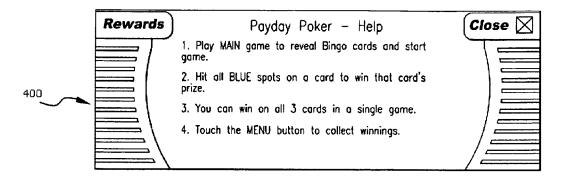


FIG.4A

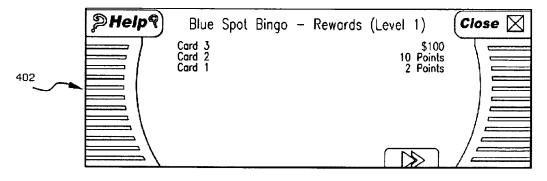
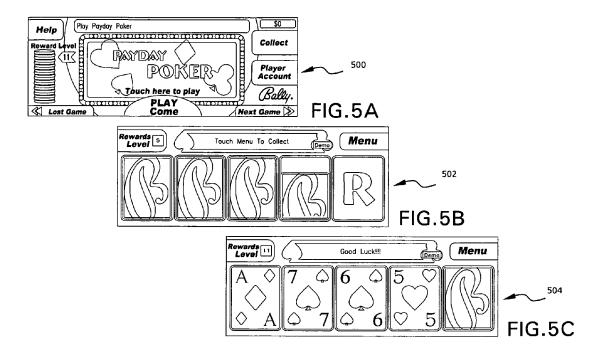


FIG.4B



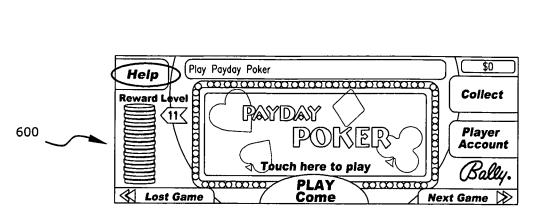


FIG.6A

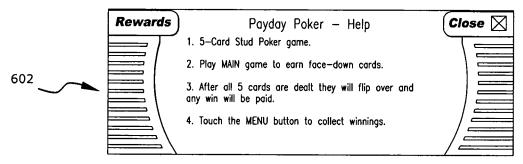


FIG.6B



FIG.6C

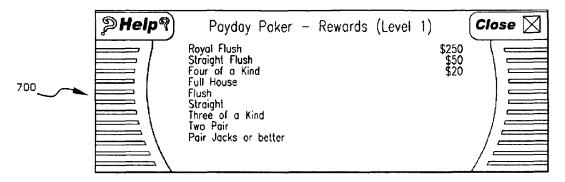


FIG.7A

### Better Pay Tables for increased EGM wagering

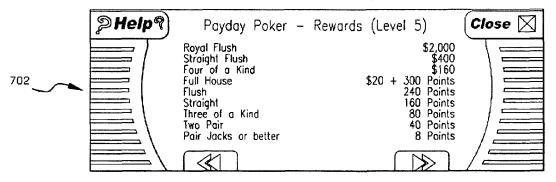


FIG.7B



FIG.8A



FIG.8B

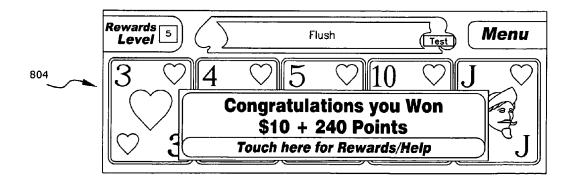
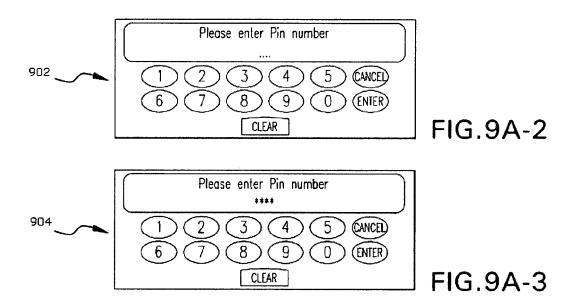


FIG.8C





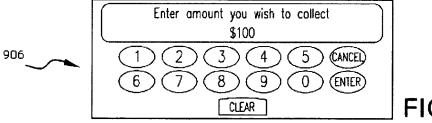


FIG.9A-4

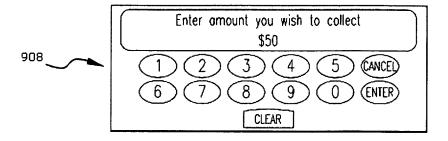


FIG.9B-1

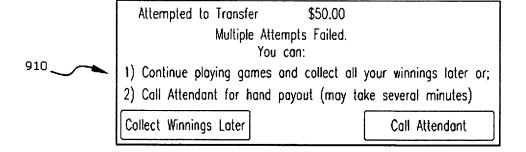
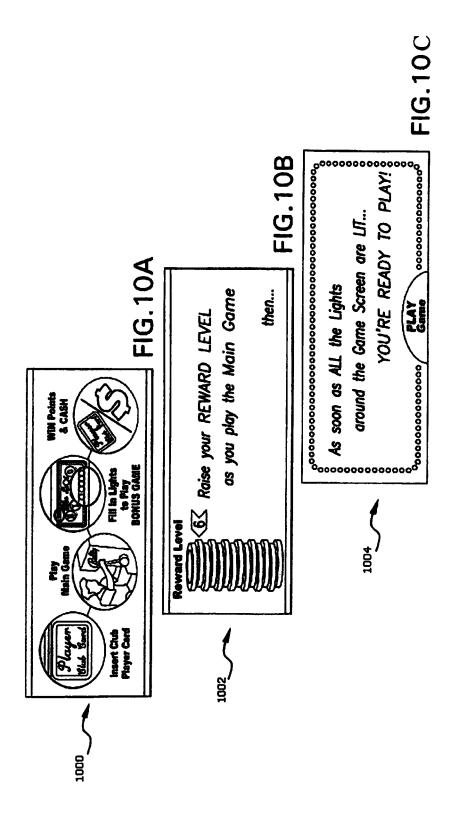
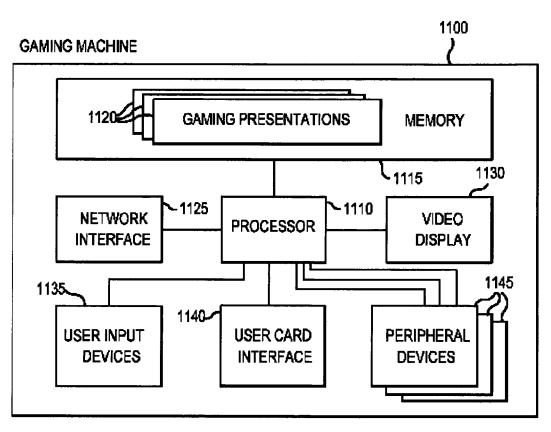


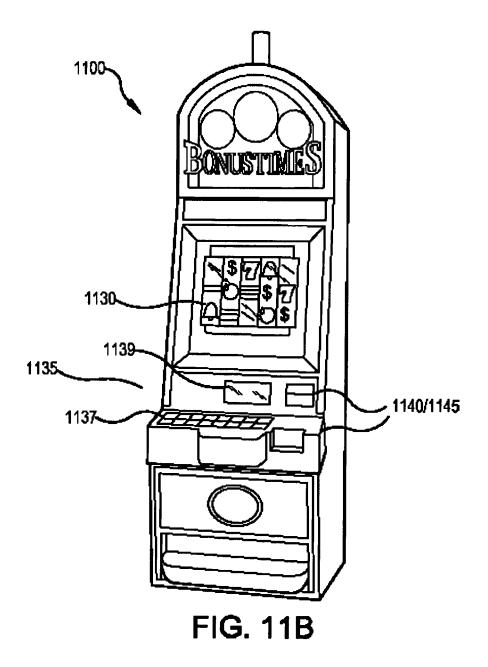
FIG.9B-2





**FIG. 11A** 

Jul. 14, 2015



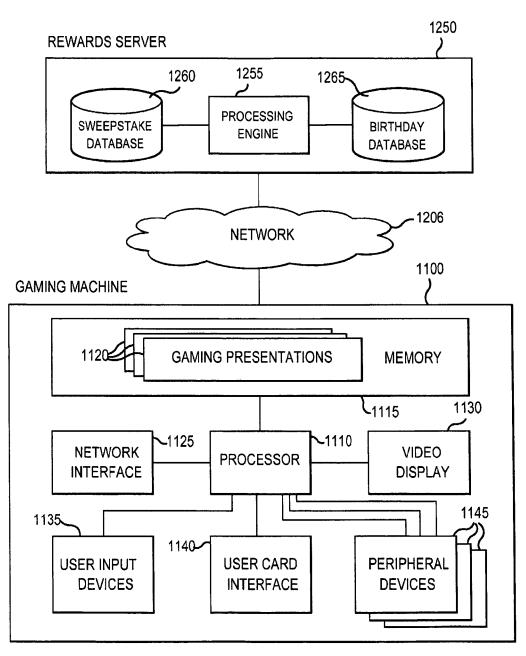


FIG. 12A

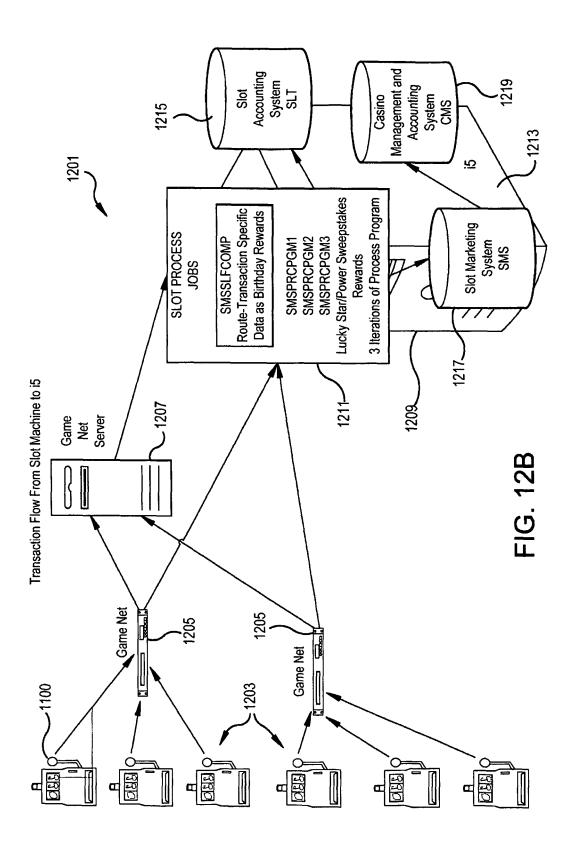
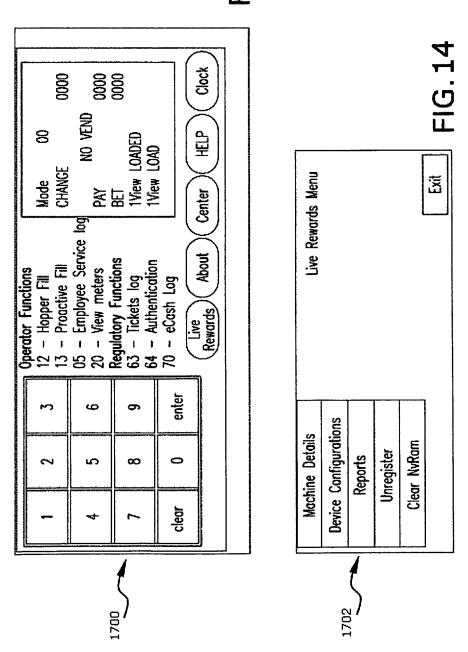


FIG.13



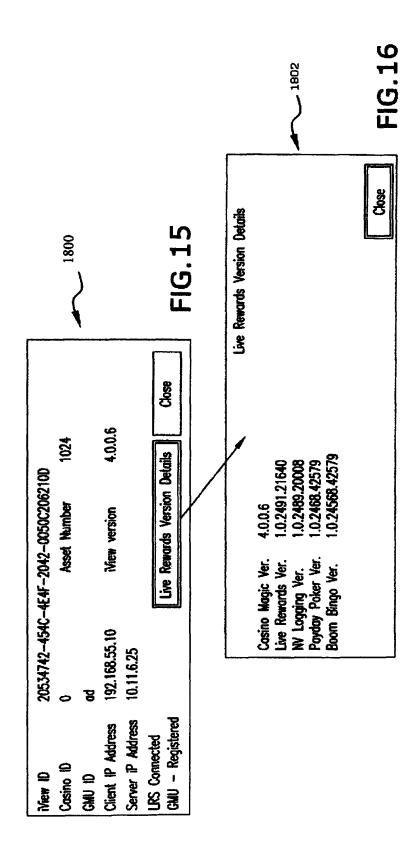
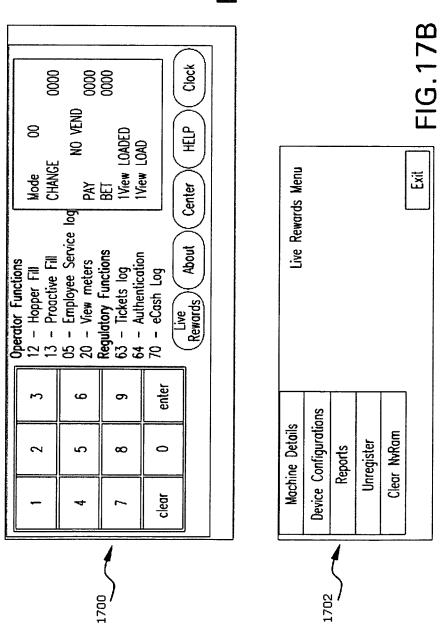
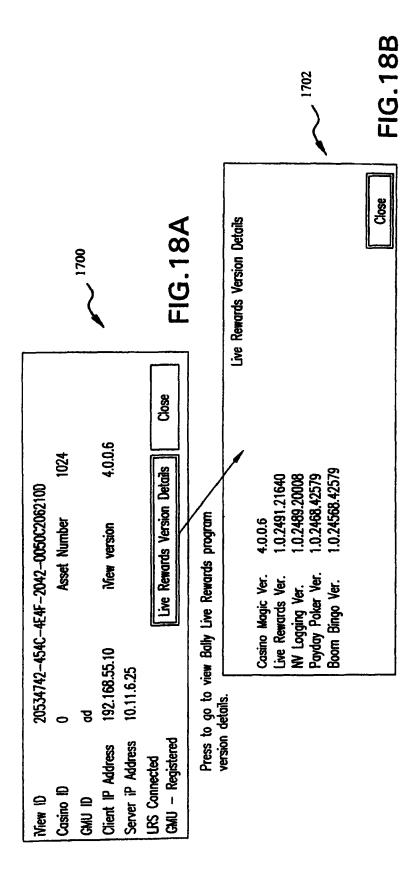


FIG.17A



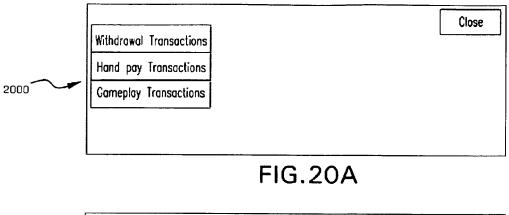


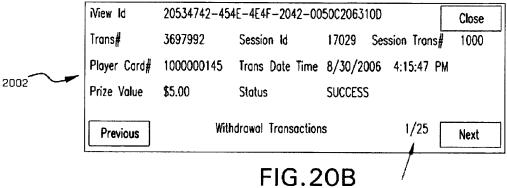
| Field             | Description  |
|-------------------|--|
| Asset Number      | Slot machine identification number.  |
| Casino ID         | Unique, 3-digit property identifier.   |
| Client IP Address | Network address of the MEW.  |
| CMU ID            | Unique identification number of the Game Monitoring Unit (CMU). This number is assigned by the Slot Management System upon initial connection. |
| iview id          | Unique number used to identify the IVIEW device. This number is a manufacturer—assigned value.   |
| IVIEW Version     | Version of code currently installed on the IVIEW device.   |
| Field             | Description  |
| LRS               | Status of the Live Rewards Server (LRS) that the IMEW is communicating with.<br>Status: Connected or Not Connected.                            |
| GMU =             | Status of WEW connection to the Game Monitoring Unit (GMU) — Connected or Not Connected.   |
| Server IP Address | Network location of the Bally Live Rewards server.   |

FIG.18C

1900

|                                 |  |                          | 9 <b>A</b>      |                   |   | 1902  |   |   | FIG. 196   |
|---------------------------------|--|--------------------------|-----------------|-------------------|---|---|---|---|--|
| 15 min Jurisdiction Limit \$200 | act mode 50 Auto-Play System Games OFF | 45 Refresh               | Close   FIG.19A | ption             | Determines whether a randomly selected Bally Live Rewards game plays automatically once the player has accrued enough play points. This setting is defined through the LRS, under Global Settings | Defines the number of minutes between each IVIEW synchronization with the LRS to download global settings. These settings are defined through the LRS, under Global Settings. | Indicates the jurisdictional limit for handpaid jackpots. This setting is defined through the LRS, under Global Settings. | Volume setting for attract movie. This setting is defined through the LRS, under Global Settings. | Volume setting for Bally Live Rewards games. This setting is defined through the LRS, under Global Settings. |
| Wew sync Interval               | Live Rewards Volume for Attract mode   | Live Rewards Volume Game |                 | Field Description | Auto—Play System Games Determine automatic defined the  | IMEW Sync Interval  to downlo   | Jurisdiction Limit Indicates through t  | System Game Volume for Volume so Attract Mode Global Se   | System Game Volume Game Volume su  |





|      | iView Id       | 20534742-454E-4E4F-2042-0050C206310D HID 615357 |               |                     |       |  |  |  |  |
|------|----------------|---|---------------|---------------------|-------|--|--|--|--|
|      | Game           | 100-Blue Spot Bingo                             | Player Card#  | 1000000145          | Close |  |  |  |  |
|      | Reward Level   | PayTable 11                                     | Score         | No Win              |       |  |  |  |  |
| 2004 | Start DateTime | 8/31/2006 3:40:39 PM                            | End Date Time | 8/31/2006 3:40:49 P | М     |  |  |  |  |
|      | Buckets Spent  | 100 р.р   | Winnings      | None                |       |  |  |  |  |
|      | Previous       | Gameplay Transac                                | 1/50          | Next                |       |  |  |  |  |

FIG.20C

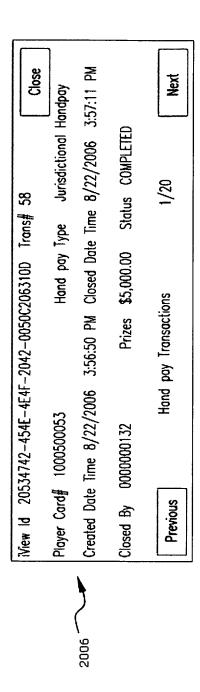
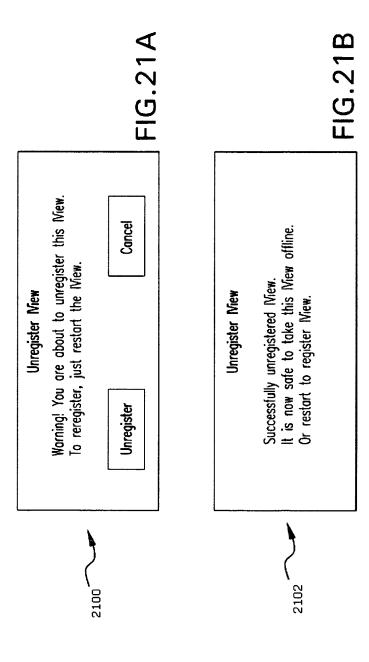


FIG. 20D



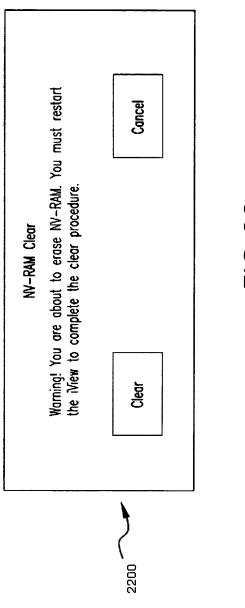


FIG. 22

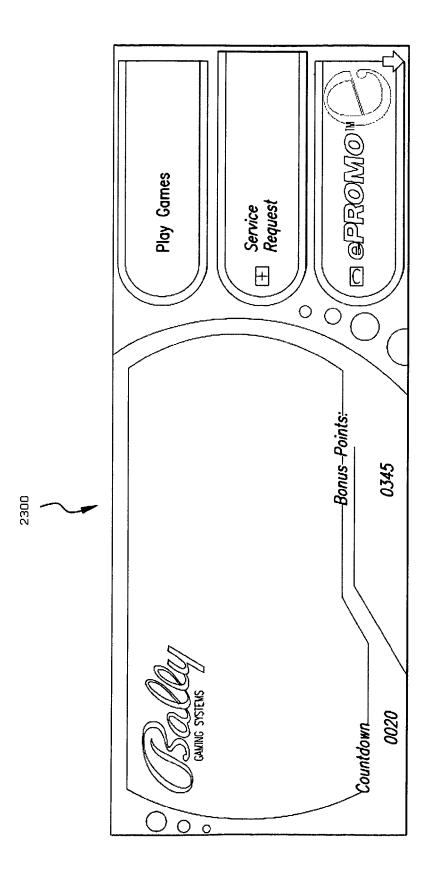
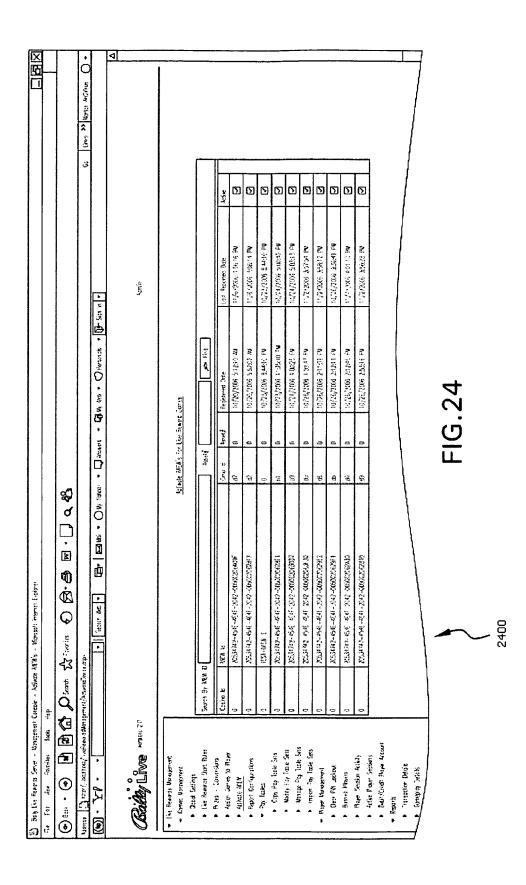
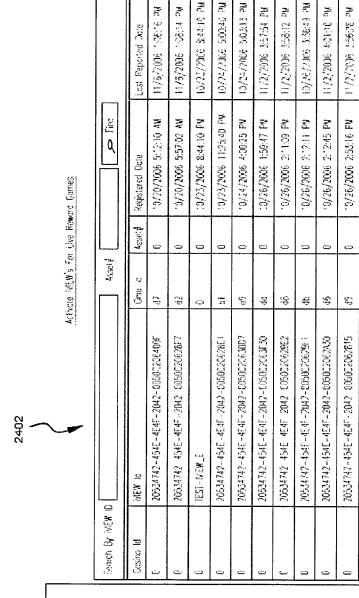


FIG.23



 $\sum$ 



Live Rewards Stort Rues

Live Rewards Management

Games Management

Global Settings

Prizes - Conversions

Assign Gerres 'n Player

Activitie WIN

Jul. 14, 2015

 $\mathbf{\Sigma}$  $\square$ 

 $\square$ 

PC INT

BeblyCred Pleyar Appuni

sioted radoosoor o

Startegies Jetails

Player Sosian Activity Active Payer Sessions

▶ Clear PIN Luckout

Ponned Dayers

Player Manugement

shed e col i for a Sets

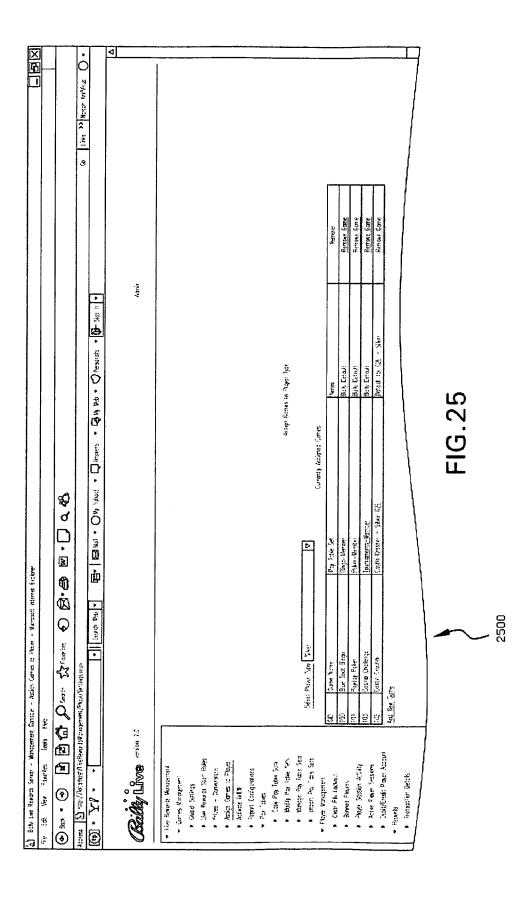
P import fine Tuble Sals

Nothly Pay Jone Sers

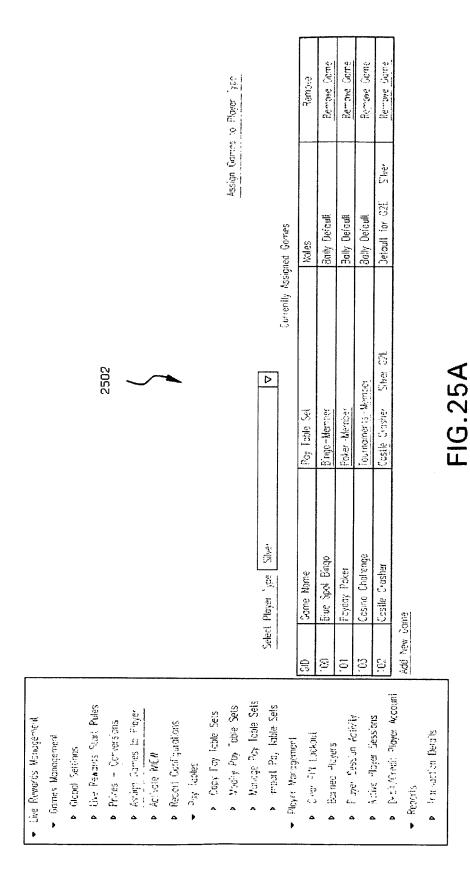
D Copy Poy Toble Sele

Report Configurations

Pay Tables



Jul. 14, 2015



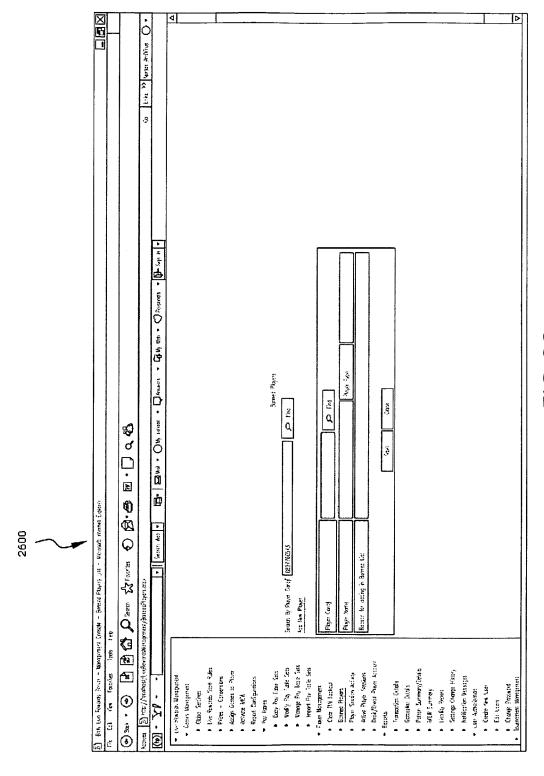
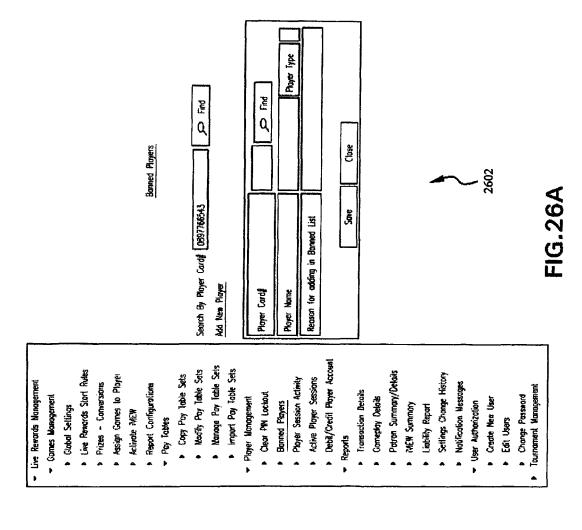


FIG.26



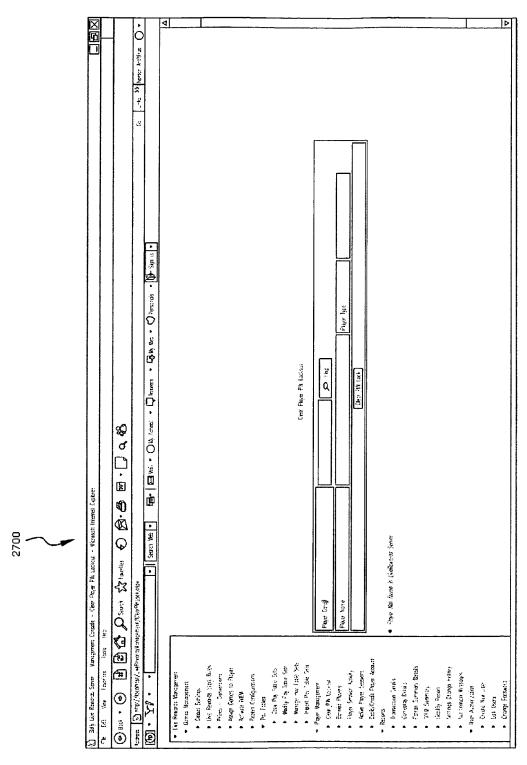


FIG.27

- ▼ Live Rewards Management
  - ■ Games Management
  - ▶ Global Sellings
  - ▶ Live Rewards Start Rules

Jul. 14, 2015

- Prizes Conversions
- Assign Games to Player
- ▶ Activate iVIEW
- ▶ Report Configurations
- ▼ Pay Tables
- ▶ Copy Pay Table Sets
- ▶ Modify Pay Table Sels
- ▶ Manage Pay Table Sets
- ▶ Import Pay Table Sets
- ▼ Player Management
  - ▶ Clear PIN Lockout
  - Banned Players
  - Player Session Activity
- Active Player Sessions
- ▶ Debit/Credit Player Account
- ▼ Reports
  - ▶ Transaction Details
  - Gameplay Details
  - Patron Summary/Details
  - iViEW Summary
  - Liability Report
  - Settings Change History
- Notification Messages
- User Authorization
  - Create New User
  - Edit Users
  - Change Password

Clear Player PIN Lockout

| Player Card∦ | ☐ ☐ Find       |
|--------------|----------------|
| Player Name  | Ployer Type    |
| ic           | Clear PIN Lock |

• Player Not Jound in LiveRewards Server



FIG.27A

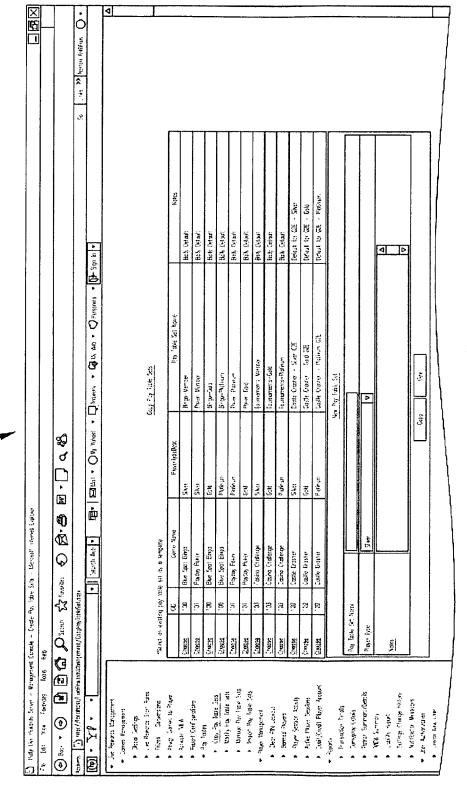


FIG. 28

2802

f - Cold F - Platinum

▶ Debt/Creat Player Account

Intersacion Desas

Player Seas on Activity
 Active Player Residuis

Patron European (Betails

Mark Summary
(Intell, Proper

Vestings (honge History

Nethorier Wessiges

▶ Crecie lew user

🕶 user Autran Milan

| 'Select on existing |          |   |                     | 1                            |                |
|---------------------|----------|---|---------------------|------------------------------|----------------|
| 'Select on existing |          |   | Copy Sey Tente Sets | low wis                      |                |
|                     | g pay ud | Select on existing pay othe set as a temposie | 9,5                 |                              |                |
|                     | 3        | Some Name                                     | Proyer lypeDesc     | Pry Joble Ser Mome           | Net            |
| C*aase              | 101      | Blue Spot Bingo                               | Silver              | Brigo Verniber               | Eally Default  |
| C1305e              | 2        | Poyody Faker                                  | Sizer               | Poker - Member               | Bally Default  |
| C10050              | 901      | Office Stool Brogo                            | 5005                | Enga-Coc                     | Eally Defout   |
| Chwae               | 20       | Blue Spot Engo                                | Platinum            | Bingo - Heitrum              | Eally Defeaft  |
| Chaose              | ≘        | Payday Paker                                  | Platinum            | Paker - Platinum             | Bolly Defeut   |
| Crouse              | 100      | Popisy Foles                                  | Çolç                | Paker - God                  | Bolly Dufauf   |
| Cranse              | 10.5     | Cosino Cadlenge                               | Silver              | Inurroments - Wenther        | Bally Detect.  |
| Croose              | 50       | Cosino Cedilence                              | Gold                | Tournaments -Cold            | Bolly Default  |
| C1005e              | 103      | Casino Cadlenge                               | Platinum            | i ourcements – Plotinum      | Fally Defrait  |
| Choose.             | 701      | Soste Coster                                  | Sher                | Casile Crosher - Silver G2E  | Caloud for CE  |
| Croose              | 701      | Soare Crosher                                 | PICO                | Caste Crosner - Sold G2E     | Defout for G2E |
| Croose              | 102      | Sost'e Croster                                | Platinum            | Casile Glosher - Prathum G2E | Defout for CE  |
|                     |          |   |                     | New Pay Toble Set            |                |
| Pay Totale Set Name | ame      |   |                     |                              |                |
| Player Type         |          | <u>to</u>                                     | Sver                | Δ                            |                |
| Notes               |          |   |                     |                              | <b>4 b</b>     |
|                     | -        |   |                     | ACO. NO.                     |                |

Cory Pay Table Sers
 World, Pay Table Sers
 Wanage Pay Table Sers

\$135 金百 Ag 1951年 4

A Clear P.N., Dekaul

▶ Benred Poyer:

Player Venuserieri

Pizes - Johnersons
 Assign Sames in Proper

Report Contiguistions

Actions YEA

Dudbel Settings
 Live Rewards Stort Rules

Live Razords Management

Jemes Management

FIG. 28A

2900

Jul. 14, 2015

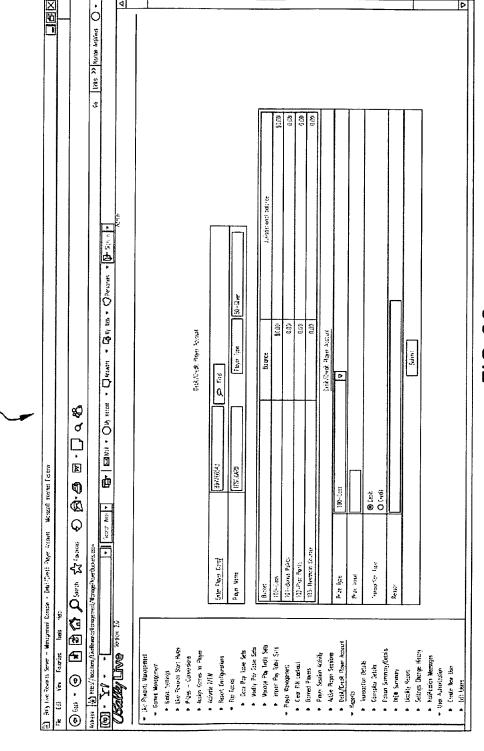
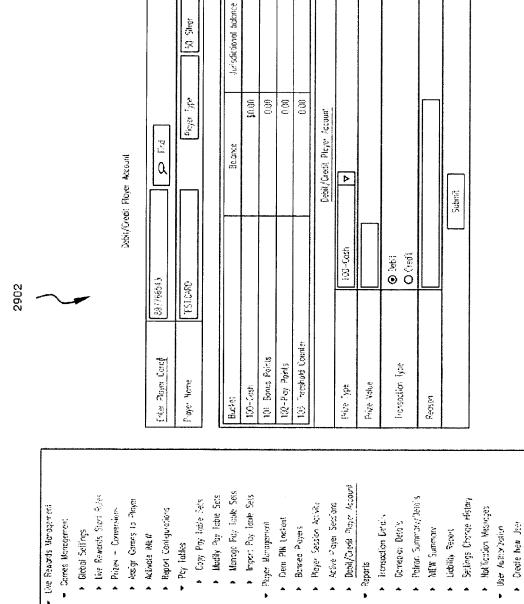


FIG.29



0.00

FIG. 29A

Tait Users

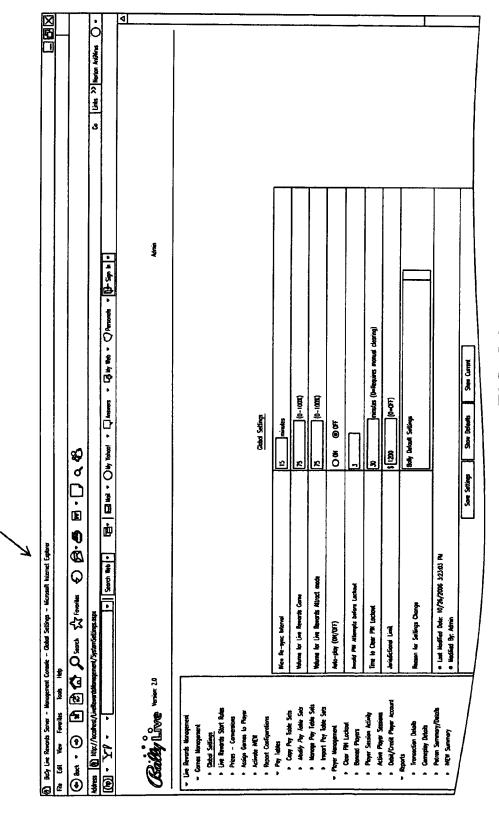


FIG.30

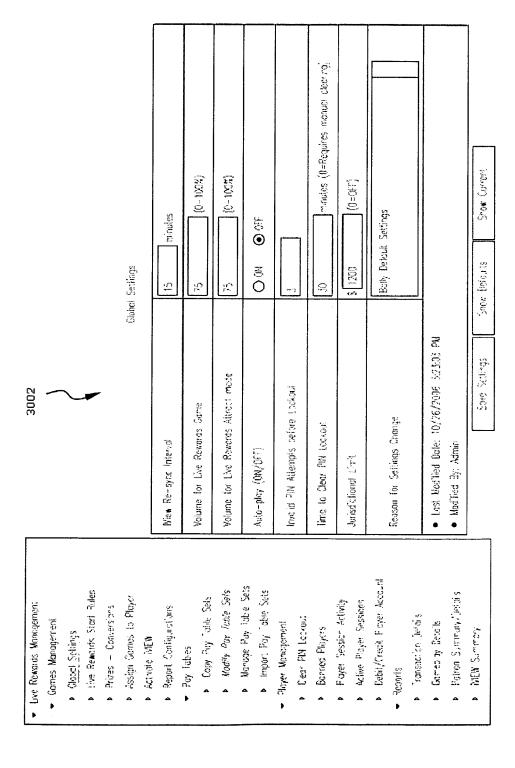
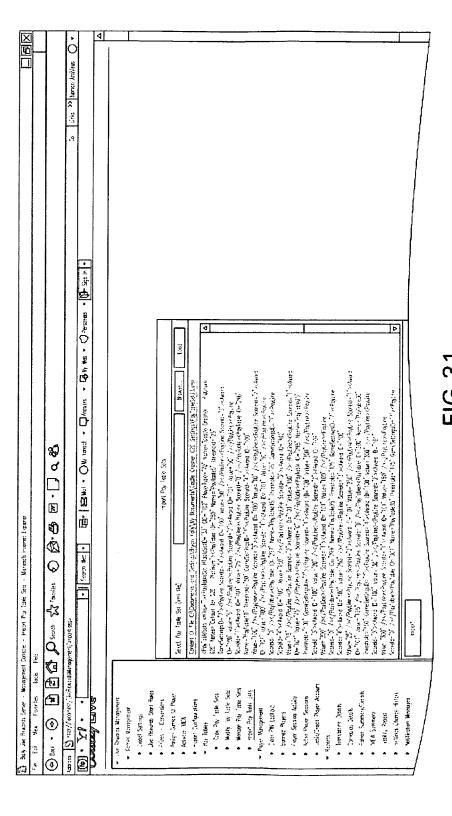
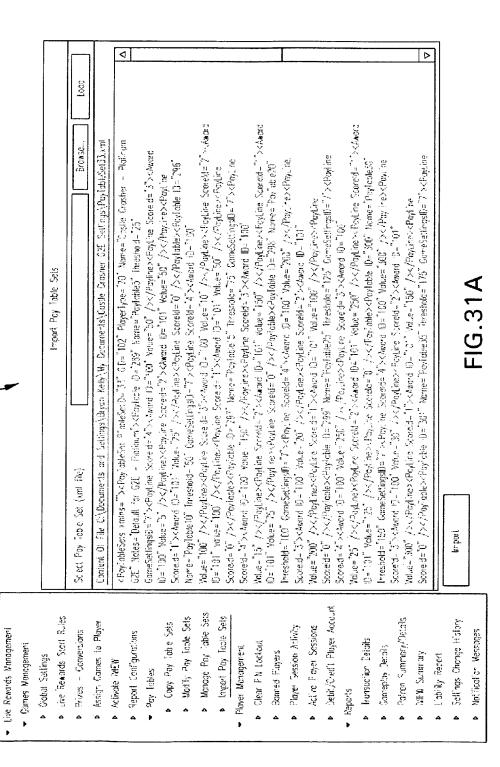
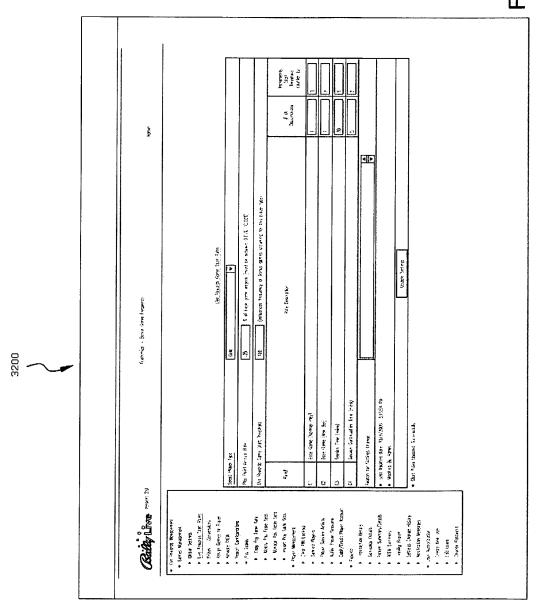


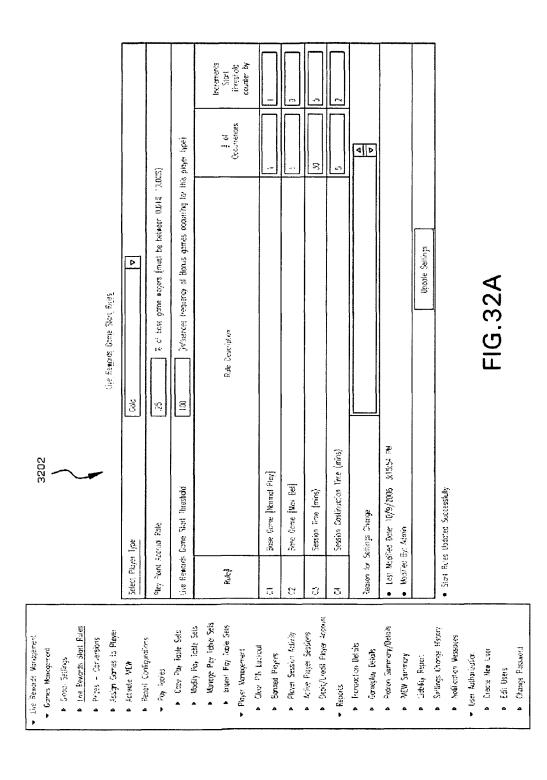
FIG.30A

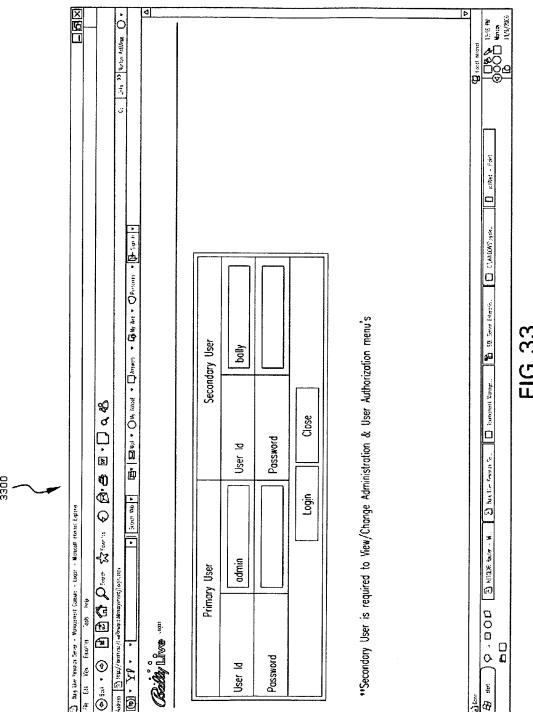




16.32







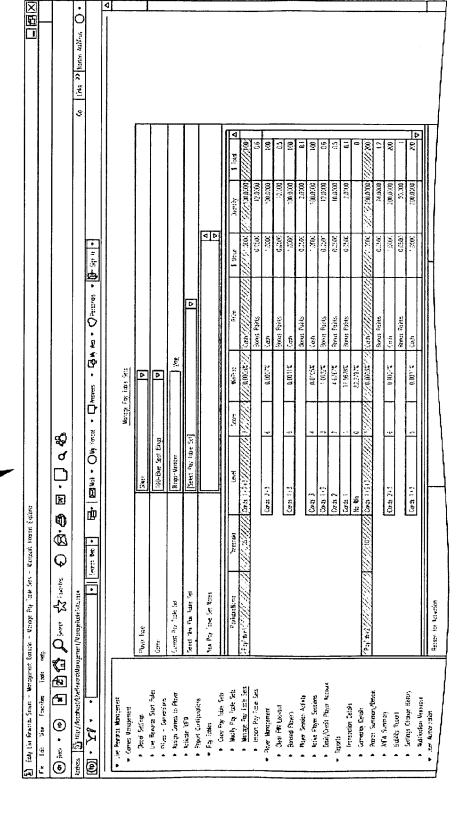


FIG. 34

| Sheet   Parison   Pariso   |   |              |             |                |                      |                          |                         | Ш     | <b>4</b>                               | ie.           | 85      | 6.0          | 3        | 3            | 55       | 0.6          | 0.5         | 5            | -        | ,00.3<br>% (50.0)       | 17           | 700      |             | (S)      |  |
|--|---|--------------|-------------|----------------|----------------------|--------------------------|-------------------------|-------|--|---------------|---------|--------------|----------|--------------|----------|--------------|-------------|--------------|----------|-------------------------|--------------|----------|-------------|----------|--|
| Siver  |   |              |             |                |                      |                          |                         |       |  | 12,0330       | 100,000 | 00:000       | 100,9740 | 2,000        | 155,5000 | 12,00000     | 10,0000     | 2.0300       |          |                         | 24,0000      | 200 0000 | 20.000      | 230 0030 |  |
| State State   State State   State State   State State   State State    |   |              |             |                |                      |                          | <b>4</b> D              | -     |  | 20:070        | 00001   | 0.000        | 0.00.1   | 0.0500       | 1,000    | 0.0520       | 0.050.0     | 00300        |          |                         | 0.050.0      | 00001    | 0.0500      | 1,000.   |  |
| Sheet   Pay   Content      |   |              |             |                |                      | Δ                        |                         |       | Huze<br>Scan                           | Parius Pairis | Crah    | Banus Points | Cash     | Senus Pairls | S.       | Bonus Pairts | Banus Paris | Sonus Points |          | Cash                    | Sanus Pairts | Cosh     | Bong Poirte | Cash     |  |
| Solution    |   | or othe Seis | Δ           | Δ              | View.                |                          |                         | 4     | Michiga<br>SSSA Onitota SSSS           |               | 0.00072 |              | 0.00113  |              | 0.0105%  | 1,0632%      | 4,6767%     | 11,9678%     | 82.2797% | /// 8:000:0 <i>////</i> |              | 0.0007%  |             | 0.0011%  | - Commission of the Commission |
| Sei Nates Sei Nates  Sei Nates  Conde 3  Conde 1  Conde 1  Conde 3   |   | Wenge P      |             | 040            |                      | Set]                     |                         | ×     | 300c                                   |               | 9       |              | وريس     |              | *3       | \$           | 67          |              | ŏ        |                         |              | w        |             | sa 1     |  |
| fighe Set<br>Set Naties<br>Corne Trrestrate  |   |              | Shei        | 100-Bue Spat B | Birgo~Wember         | Select Pey Tools         |                         |       | Jewell (1)(1)(1)(1)                    |               | 3+3     |              | £.4      |              |          | eng<br>4s    |             |              |          |                         |              | en<br>÷  |             | ¥.3      |  |
| fighe Set Set Set Set Set Set Set Set Set Se   | _ |              |             |                |                      |                          |                         | -     | W.Cords 1                              |               | Cerds 2 |              | Cords    |              | Cords    | Cends        | Cords 2     | Cards 1      | No Win   | ///Cords                |              | Conds 2  |             | Cords    |  |
| Tayer For Carbbe Sust career Froy Tarbbe Sust career Proy Tarbbe Sust Proy |   |              |             |                |                      |                          |                         |       | )///////////////////////////////////// |               |         |              |          |              |          |              |             |              |          | 11/0/11/11/19           |              |          |             |          |  |
| 1 4 4 2 1 G 1 G 1 H 1  |   |              | المائد رائه | J. Carre       | Gareri Foy Table Set | Salort New Poy Tuble Sel | Hew Pay Toole Sol Ables | 0.000 | Poylegoendrie Poylegoendrie            |               |         |              |          |              |          |              |             |              |          | PeyTobse2 ///////////   |              |          |             |          |  |

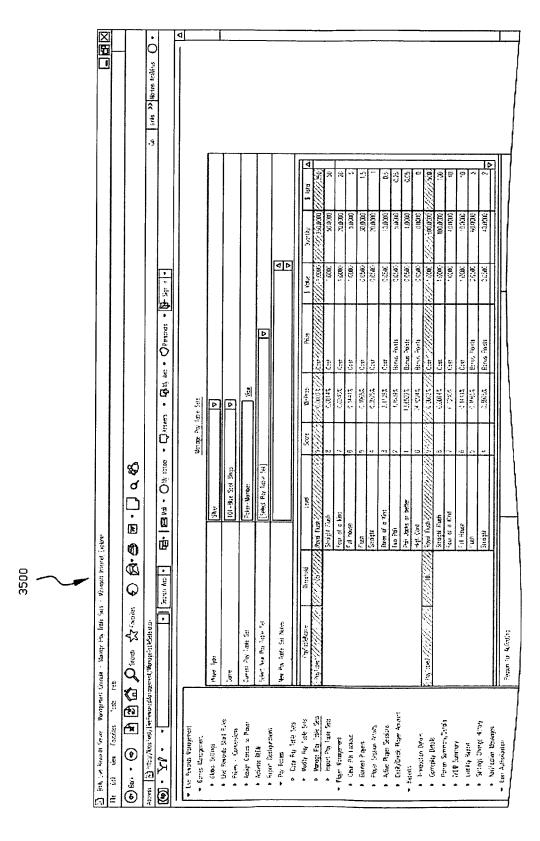
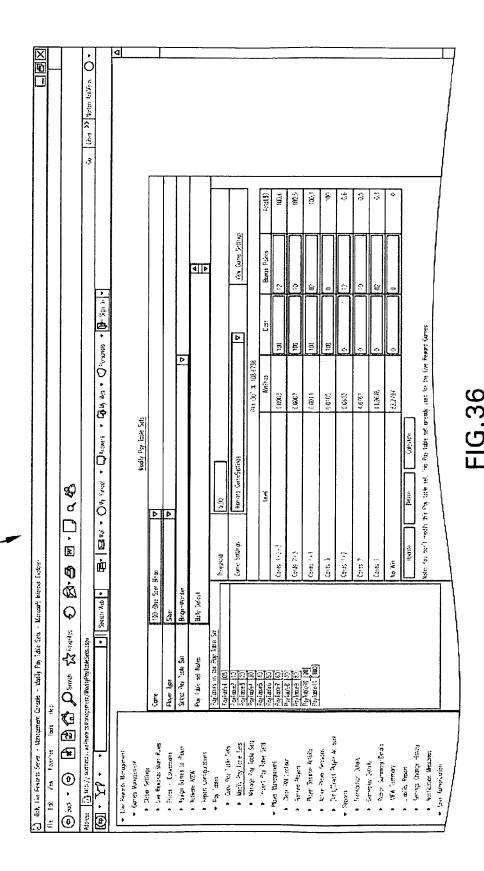


FIG.35

|   |  |             |   |                      |                          |                         |                     | 4                       | 35   | 160                     | F.3               | 100              | Lies           | ı -                     | Lo                     |                           |                      |                   | l es   |                       | les.         | 1          | Les               | D                     |                   |
|---|--|-------------|---|----------------------|--------------------------|-------------------------|---------------------|-------------------------|--|-------------------------|-------------------|------------------|----------------|-------------------------|------------------------|---------------------------|----------------------|-------------------|--|-----------------------|--------------|------------|-------------------|-----------------------|-------------------|
|   |  |             |   |                      |                          |                         |                     | );O: 1                  |  | ន                       | 36                |                  | 5              |                         | 0.5                    | 0.25                      | 6.03                 |                   | 05///////                                      | 53                    | Q+           | 2          |                   |                       |                   |
|   |  |             |   |                      |                          |                         |                     | Quor its                | 36.755.00d                                     | 59,000                  | 33.000            | 3.3300           | 30,000         | 20,2000                 | 13.50.00               | 3,000                     | 2000                 | 3,3000            | 2000-00-200                                    | 165,300               | 40,000       | 3300:51    | 50.500            | 900000                | 7                 |
|   |  |             |   |                      |                          | 40                      |                     | \$ Value                | 11.0000  | 1,0000                  | 1,0000            | 1,0000           | 0.050.0        | 0.0500                  | 00500                  | 0.0500                    | 0.0500               | 0.0500            | 2000 t 2000 k                                  | 1,0000                | 1,0000       | 1,0300     | 0.0500            | 00500                 | 1                 |
|   |  |             |   |                      | Δ                        |                         |                     | P. Fe                   | Cosn'//////////                                | ເຣລາ                    | Cesh              | Cosh             | Cash           | Cesh                    | Cosh                   | Borus Points              | Forus Points         | Borus Paints      | 031/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/       | Čash                  | igst.        | Cosn       | Forus Points      | Borus Points          |                   |
|   | Oble Sets                                    | Δ           | Δ   | West                 |                          |                         |                     | Winfred                 | 200000 3 3 CC                                  |                         | 0.0340%           | 0.1441%          |                | ) 3525%                 | 2.11283 (              | 4,7539% 6                 | 13.6527% F           | 78.724% E         | 2000.000 \$ Cost                               | 0.0014%               | 0.0245% Cash | 0.1441%    | 0.1965% 6         | 0.3925% E             |                   |
|   | Vanage Pay Toble Sets                        |             | ot Bingo  | ië                   | Little Sei]              |                         |                     | 3,000                   |  | 50                      | 1                 | ĝ                | 5              | 4                       | ì                      | 7                         |                      | 0                 | 0//////  | ລວ                    | r•.          | ą.         | ų, i              | Ť                     | 4                 |
|   |  | Sea         | 101-Blue Spot Bingo                               | Poker - Wember       | Select Pay little Sel    |                         |                     | 1,000                   | Perod Push IIIIIII                             | Straight flush          | four af a kind    | full house       | Ťa.            | Staight                 | Three of a Kind        | ING Oct                   | Peir Jacks or beiter | High Card         | Peyal Aush//////////////////////////////////// | Staight flush         | Four statknd | full House | -                 | Skaight               |                   |
| ~ |  |             |   |                      |                          |                         |                     | Threshoa                | 1111161111111                                  | ্র                      | <u></u>           | <u></u>          |                | . išs                   | Ž                      | ) i                       | 21                   | -Œ.               | 11/1/10/01/1/19 <sub>Es</sub>                  | 3                     | 16.          | P)         | - Flusi           | क्ति                  |                   |
|   |  | Physir Type | Sens  | Curent Pay Table Sel | Select New Poy Tuble Sel | Vex Pay Table Set Notes |                     | Payl oblestione         | Poylable (//////////////////////////////////// |                         |                   |                  |                |                         |                        |                           |                      |                   | Poytothe? //////////////////////////////////// |                       |              |            |                   |                       |                   |
|   | Live Revords Management     Comes Vanagement |             | Live Reversis Start Rules     Pries - Conversions | <u>.</u>             | <u> </u>                 | <u> </u>                | Capy Pay Table Seis | h Noofly Pay Toure Sets | 555  | > Import Pay Toble Sets | Player Management | Olegr PM Jackoul | Borned Project | Player Session Activity | Active Player Sessions | Designation Proper Across | Pepoits              | Increasing Berale | 3553   | South Commence States |              |            | Following Respons | Formula Grade 4 story | September Manager |

FIG.35A



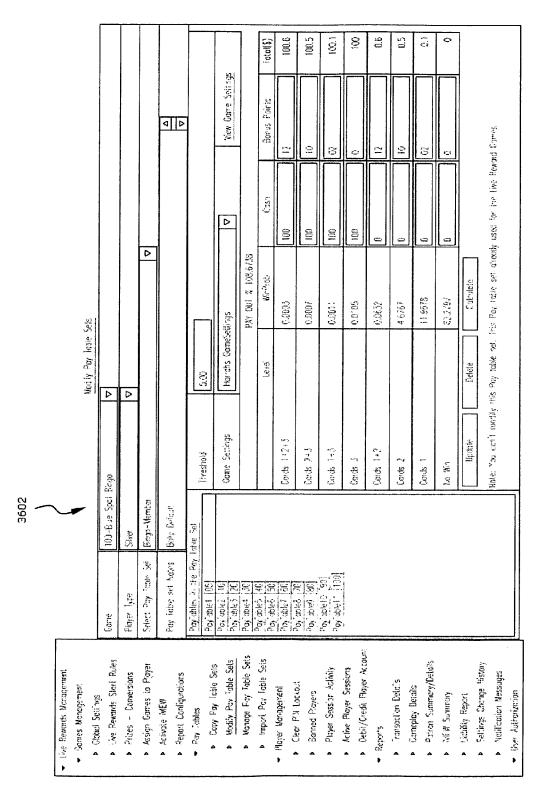


FIG.36A

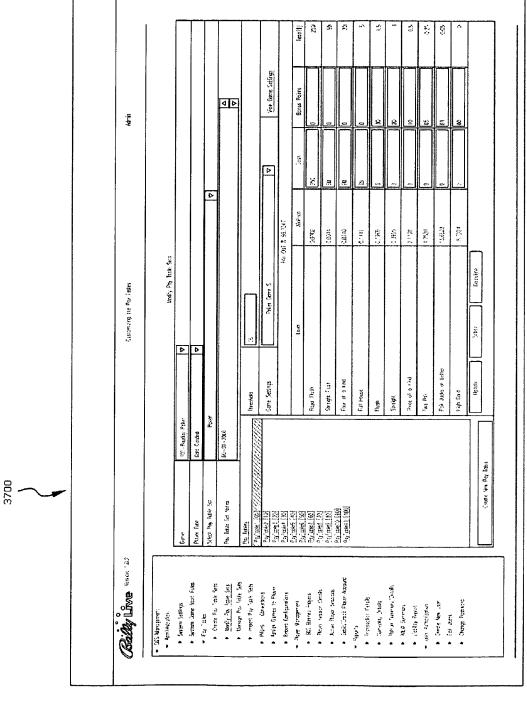
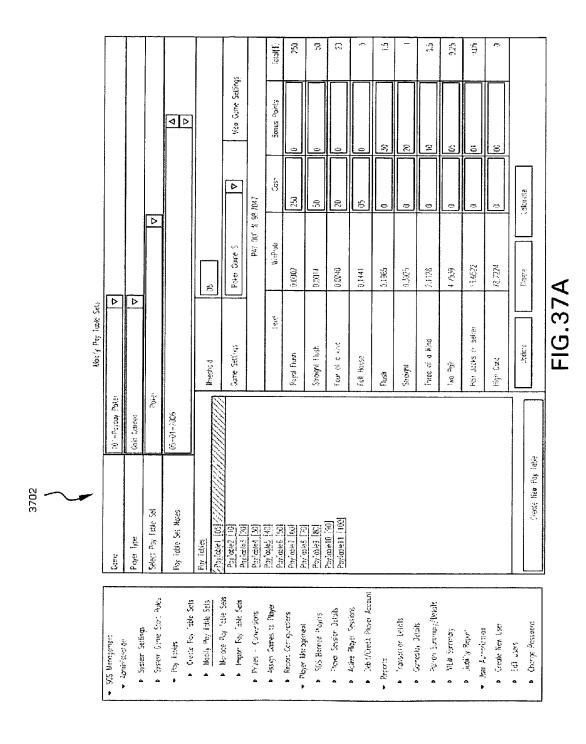


FIG. 37



3800

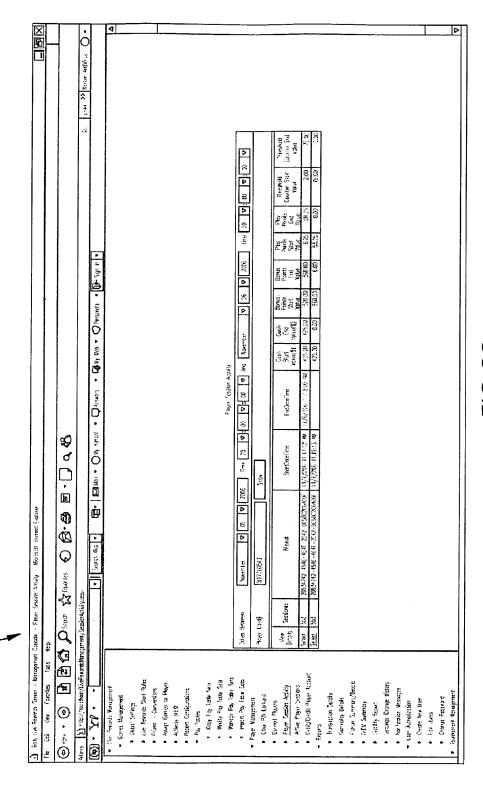


FIG.38

Jul. 14, 2015

| < | 1 |   |
|---|---|---|
| C | X |   |
| C | Y |   |
| ( | r |   |
| Ĺ | ı | _ |
|   |   |   |

|  |               | 8   | 3802              |                         |              |                  |                 |               |              |
|--|---------------|---|-------------------|-------------------------|--------------|------------------|-----------------|---------------|--------------|
| विधानक्रियाम् द्वासम्बद्धः चतुः 🕳        | <b>_</b>      |   |                   |                         |              |                  |                 |               |              |
| * Junes Newpartent                       |               |   |                   |                         |              |                  |                 |               |              |
| P Chical Seffress                        |               |   |                   |                         |              |                  |                 |               |              |
| Die Starres Sun füles                    |               |   | •                 |                         |              |                  |                 |               |              |
| क सिंह्म्स - ेजनस्तिक                    |               |   |                   |                         |              |                  |                 |               |              |
| e fapt: Come: 1: Fapt                    |               |   |                   |                         |              |                  |                 |               |              |
| ▶ 4zürzie NE#                            |               |   |                   |                         |              |                  |                 |               |              |
| P. Sepor Comparations                    |               |   |                   |                         |              |                  |                 |               |              |
| - 10 10 10 10 10 10 10 10 10 10 10 10 10 |               |   |                   |                         |              |                  |                 |               |              |
| the Copy Pay Tubing sets                 |               |   |                   |                         |              |                  |                 |               |              |
| A Modify Ort, Tone Gry                   |               |   |                   |                         |              |                  |                 |               |              |
| S. S. Boot with equipment                |               |   |                   | distroy uspesses lating | ž•.          |                  |                 |               |              |
| धम्ह कद्भा कि प्रयोग व                   | Dates Brikesa | 3011 🛕 30 🛕 DOLLARY                         | 30 : Δ 97 aug     | <b>△</b> 33 <b>△</b>    | 4ra November | ) (3) (A)        | <u>⊅</u>        | ,Ē            | ime 30       |
| bangton North                            | Prayer Curdi  | 807786843                                   | Sign              |                         |              |                  |                 |               |              |
| 2000 No. 622                             |               |   |                   |                         |              |                  |                 |               |              |
| Programme Agency                         | hee Second    | 1966<br>1966<br>1966                        | a Silvato Crassic | Futhering               | Cust Cash    | Stands<br>Stands | Bonus<br>Paints | Play<br>Parts | Play<br>Pens |
| The Note County                          | Jeicks        |   |                   |                         |              |                  |                 | F Series      | 53           |
| Publiched Page Account                   | Seatt 552     | 20534742 =4541 = 4141 = 2047 = 000022064091 | W 20208 161202 48 | 11/6/205 11:19:08 AM    | -31          |                  |                 | 3.75          | 1            |
| specie.                                  | ا<br>الا      | 20534742-4545-4445-2843-005002084395        | 176/206 18/9/13 W |                         | 425.00 5.00  |                  | O,CO            | 53.25         | (X)()        |
| a intraction Jatais                      |               |   |                   |                         |              |                  |                 |               |              |
| • Company Defets                         |               |   |                   |                         |              |                  |                 |               |              |
| Paka Semon (Betals                       |               |   |                   |                         |              |                  |                 |               |              |
| Andrews & Maria                          |               |   |                   |                         |              |                  |                 |               |              |
| 1903 (350)                               |               |   |                   |                         |              |                  |                 |               |              |
| tatay dang distay                        |               |   |                   |                         |              |                  |                 |               |              |
| Notificition Research                    |               |   |                   |                         |              |                  |                 |               |              |
| • See Liberton                           |               |   |                   |                         |              |                  |                 |               |              |
| a freshe have used                       |               |   |                   |                         |              |                  |                 |               |              |
| ▶ Feit Uters                             |               |   |                   |                         |              |                  |                 |               |              |
| ► (Purite Possaud                        |               |   |                   |                         |              |                  |                 |               |              |
| Temegonal Management                     |               |   |                   | 100 VII                 |              |                  |                 |               |              |

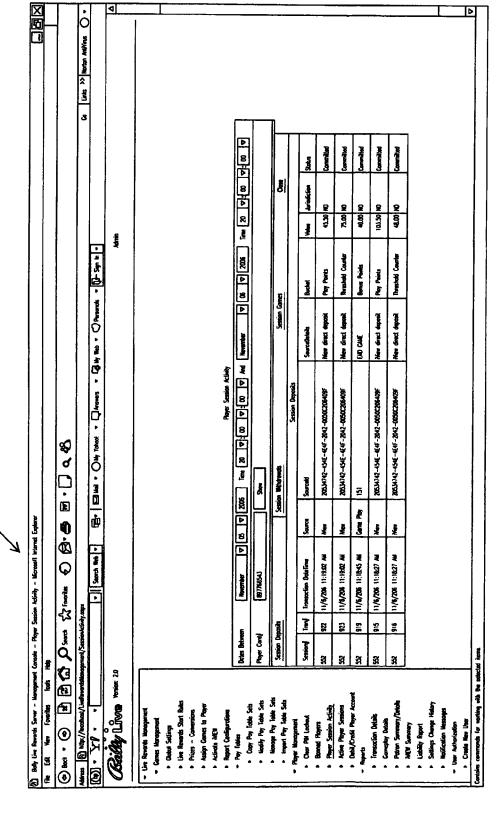


FIG.39

Steed Servings
 the Resourch Start Rubes

Mater - Commistre
 Mater Comes to Please
 Material NEW
 Mester Configurations

| Q |
|---|
| 0 |
| C |
| - |
| 9 |
|   |
| Щ |

Deale New cree

|   | True X V : DO V : On V  |                    | Sec                         |                 | Junisdaŭan Sintus                  | Committee Committee                       | Acta No Committed                        | 40.38 NO Committee               | 2 NO Committed                        | 45,70 N) Committed               |            |
|---|---|--------------------|-----------------------------|-----------------|------------------------------------|---|--|----------------------------------|---------------------------------------|----------------------------------|------------|
|   | [ <u>₩</u> ]  |                    |                             |                 | 3.10.                              | 2.8                                       | 200                                      | 20.05                            | <b>3</b> 878.                         | 153                              |            |
|   | 9000 A 93   |                    | 整                           |                 | Bucket                             | shir Parts                                | Preside Course                           | 30803 Fonts                      | <sup>28</sup> Parts                   | Threshold Causter                | A          |
|   | Waterday 🔻  |                    | Session Games               |                 | SourceDetrals                      | likes direct deposit                      | West direct, deposit                     | end cauc                         | Pisw dieci descel                     | They direct deposit              |            |
| Player Session Acterity                   | 93 Tene [20   V   100   V | Sirek              | Sessor Mischaeth            | Seeser Jepoalis | Sourceld                           | 20536142-4541-4141-2042-00300203403       | 205.54742-4546-4548 - 2042-00500 2054024 | 15.                              | 30554 NZ-454L-4L4F-2012 -00550205489F | 36050000000-000-1514-3654-266500 |            |
|   | 300C   A  |                    | <b>Ž</b>                    |                 | Sacre                              | bick                                      | Wea                                      | கோர் பிற                         | yō,ŋ                                  | bea.                             |            |
|   | November 🔻 🗗 (05  | 39776653           |                             |                 | Session) Irang Isoreaction Oxiaime | 11/6/X6 11:19:02 4W a                     | 11/6/208 11:18:02 AV                     | 11/6/206 11·1845 AN 8            | 11/16/X05 11:18:27 AM                 | 11/6/306 THE27 M                 |            |
|   | Ç.  | Te-                | Signata                     |                 | Juan J                             | 17.2                                      | 923                                      | 9:6                              | 916                                   | ¥.5                              |            |
|   | Dens Releases   | Auyor Cardif       | Sesskn Deposits             |                 | ∳oosseç                            | 27%                                       | 562                                      | 303                              | 352                                   | ij.                              |            |
| <ul> <li>Report Configurations</li> </ul> | <ul> <li>Boy locids</li> <li>From the local Cole</li> </ul>   | s.a. aga, bay igan | F. Marchie Poy, Light Sein. | • Pope Marganes | Ober PN Lockaut                    | ➤ Barrell Fayers ➤ Place Session Activity | * Agine Planer Gersung                   | Bertherm Fore Anger     Bertherm | * Topography Setting                  | First annual Center              | * 記録 3mmのす |

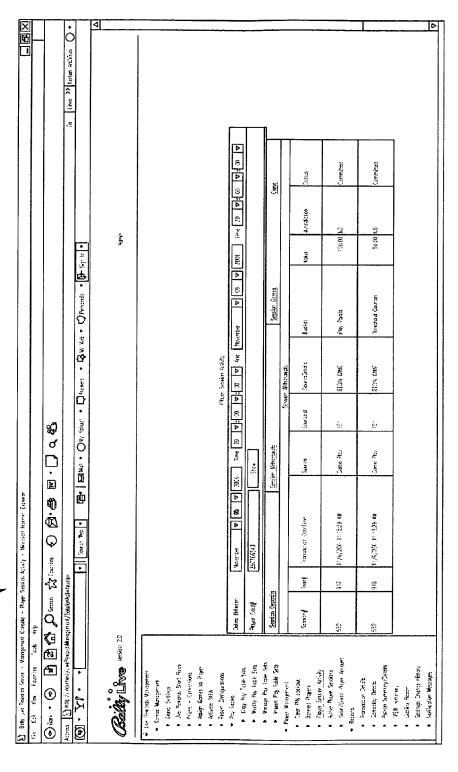


FIG.40

|      |          |  |                |                          |                      |  |              |                         | Δ (0) (Δ (0) (Δ                         |  |                       | Close                 |                     | Sintes                             |                       | Committed             |              | Committed  |                                 |   |
|------|----------|--|----------------|--------------------------|----------------------|--|--------------|-------------------------|---|--|-----------------------|-----------------------|---------------------|------------------------------------|-----------------------|-----------------------|--------------|--|---------------------------------|---|
|      |          |  |                |                          |                      |  |              |                         | [] Fine [22 ♥ 100                       |  |                       |                       |                     | echtyptyne an                      |                       | CK 95.000             |              | ek ente  |                                 |   |
|      |          |  |                |                          |                      |  |              |                         | Harember 🔻 16 🔽 2016                    |  |                       | Sessen Comes          |                     | Bucker induce                      |                       | लेक मधन्तेड           |              | firmshold Launer   |                                 |   |
|      |          |  |                |                          |                      |  |              | Player Session Activity | 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | A STATE OF THE STA |                       |                       | Session Nicrouwas   | Sourcestals                        |                       | ACH CAL               |              | E CH CH  |                                 |   |
|      |          |  |                |                          |                      |  |              | Happy                   |   |  |                       |                       | Session             | Sourceid                           |                       |                       |              | 2  |                                 |   |
| 4003 | <u> </u> | ~  | _              |                          |                      |  |              |                         | (SZ)                                    | - Second   |                       | Session Wilhdrawas    |                     | evaneg.                            |                       | Game Play             |              | Came Ploy  |                                 |   |
|      |          |  |                |                          |                      |  |              |                         | Μονεπώση Φ 05 Φ 20036                   | 397765743  |                       | Sexi                  |                     | Iransocion Dateline                |                       | T.J.E/206 11:18:29 AV |              | W 82/84/11 90/2/9/11   |                                 |   |
|      |          |  |                |                          |                      |  |              |                         | Dates Beineen                           | Pare Cods  | So us sales           | Session Deposits      |                     | Second                             |                       | 227                   |              | 316  | -                               |   |
|      |          | Line Featurds Monogener:     Conves Monogener: | Oktof Serlings | . Une Rewards Sins Buine | • Przes - Comersione | <ul> <li>Assign Games in Player</li> </ul> | Activate NEW | • Report Configurations | • Pay labes                             | * Copy Pay 100'c 203   | and the second second | F taper For lock Sets | • Player Management | Cear PW Lockaud     Sarred Physics | Pare Session Activity | -                     | tion Details | <ul> <li>Gamphay Saisile</li> <li>Payan Suampy/Desais</li> </ul> | Ales Summany     Lidelly Report | Latings Change Hslory     Nolification Versnges |

FIG. 407

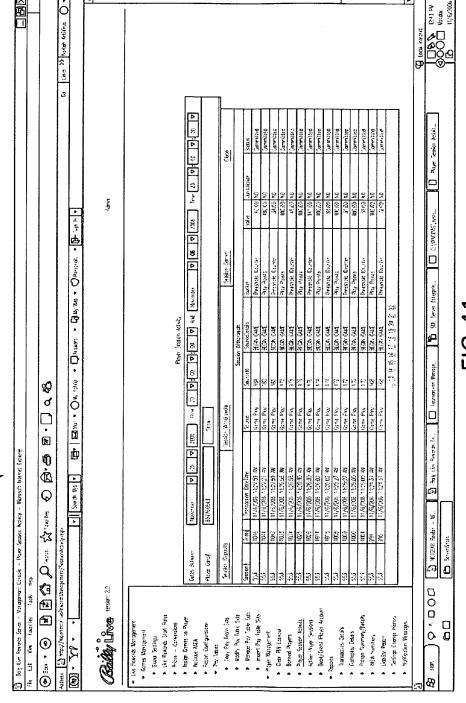


FIG.41

Jul. 14, 2015

| < | 1 |   |
|---|---|---|
| 7 | 7 |   |
|   | _ | 1 |
| Ĺ | L | _ |

| Prize Constans                          |                 |            |                        |                     | Ray        | Rayai Session activity    |                  |                |              |            |
|---|-----------------|------------|------------------------|---------------------|------------|---------------------------|------------------|----------------|--------------|------------|
| Assign Corres to Player<br>Activate MEN | Sories Botween  |            | November 🔻 🗗 🕫         | 7005 Fine N         | <u></u>    | : 06 🛡 And November       | D 00 Δ           | şaa            | 30 :Δ Ω wai. | o w:a w    |
| Report Configurations                   | Paper Landi     |            | 897765343              | รักษณ               |            |                           |                  |                |              |            |
| P. Copy Pay Toole Sels                  | Pessur Deposits | ,a         | <i>-</i>               | Seisker Withdrawals |            |                           | Session Correc   |                |              | Clase      |
| adily Day losses Sets                   |                 |            |                        |                     | Session    | Session Williams          |                  |                |              |            |
| Nanage 30, 200 Sels                     | Sesson          | inni       | innsochen Octeiere     | Source              | Secreta    | Sourabetals               | Buser            | Volx           | Jensfeller   | Storius    |
| franct Per "eff" ct:                    | 953             | 98).       | Mr 65/211 907/9/11     | Game Ray            | 68.        | Bism cwf                  | Breated Courter  | 35.35<br>25.05 | 40,00 110    | Committed  |
| - Dans Manuscriptor                     | 35.             | I PÚ.      | We 1877511 902/9/11    | Suma Bay            | 130        | BECH CALE                 | Hay Points       | ON 00'30:      | Œ ×          | Conmitted  |
| MCHCHCHCH.                              | 18.5            | 419.       | At 65'LELL 902/9/11    | Same May            | क्ष        | BECFI CANE                | Brestold Courter | 34,00 MD       | ON C         | Cormited   |
| Ceer File Lankout                       | \$63            | 570.       | We 86.05.11 305/8/11   | Game May            | Si.        | RIGH COME                 | Play Paints      | ON 00.001      | S NO         | Conmitted  |
| Barret Physis                           | 55.1            | <b>50.</b> | NY 86,000 11.00,001 NV | Same Hay            | ъ.         | SECR CANE                 | Breshod Counter  | 45.00 NO       | ) NG         | Corrmited  |
| Physics Section Activity                | \$53            | (è).       | 11,/6/206 11-26,30 AV  | Come Play           | 95:        | BEGIN COME                | Pley Points      | ON 00.001      | (F)          | Carrilled  |
| Active Player Sessions                  | 543             | યુક્તા.    | 11,/6/206 11:26.30 .W  | Same Play           | 921        | BEGIN GAME                | Bearing Courter  | ON 00,16:      | 03/10        | Courtilled |
| Bath Read Street Assessed               | X               | /1i),      | 11/6/286 11:26:02 AV   | Game Play           | 1,54       | BECTI GAME                | May Mints        | 100.00         | 2 MG         | Cerrities  |
| the second of                           | 553             | 21Q.       | 11/6/206 11:25/22 AL   | Some May            | H,         | BESPI CWE                 | Meshod Counter   | 28.55 NO       | 0410         | Cerrities  |
| er print.                               | 1453            | 9¥).       | 11/6/286 11:28:21 au   | Same Play           | 뚔          | Bion couf                 | Play Pents       | ON 00.301      | Qu t         | Committed  |
| similar inglicentini                    | <u>44.1</u>     | A)J.       | m 1347 il 38781 il     | Corne Proy          | 375        | BEON CWE                  | Bestell (arte    | 31.00          | 31.00 MO     | Committed  |
| Consider Details                        | ÷35             | (0)        | WA 00/201 885/8/11     | Same Play           | ₽.         | BEOM CAME                 | नक फिल्फ         | 011 05:30:     | - NO         | Cornited   |
| Patron Summary/Untalk                   | * 55°           | ĩΩ.        | U 088211 302/0/11      | Some Play           | œ.         | High cont                 | Heshort Courter  | £.30 NU        | JM (         | Carrilled  |
| P PEN Surray                            | 747             | 1666       | ## 15/9/211 900/9/11   | Same Ray            | 368        | BEGIN GWE                 | Risy Points      | DH 03/301      | 011          | Convitted  |
| Carally Senari                          | 55.             | <u>5</u>   | W 1516-11 306/9/11     | Gene Flas           | 3%         | BESIN GWE                 | Bresto d'Aurie   | 01 00:57       | 011          | Controlled |
| Settings Urunge History                 |                 |            |                        |                     | 15 14 15 1 | E 15 16 17 18 19 20 21 23 |                  |                |              |            |
| P. Motification Messages                |                 |            |                        |                     |            |                           |                  |                |              |            |

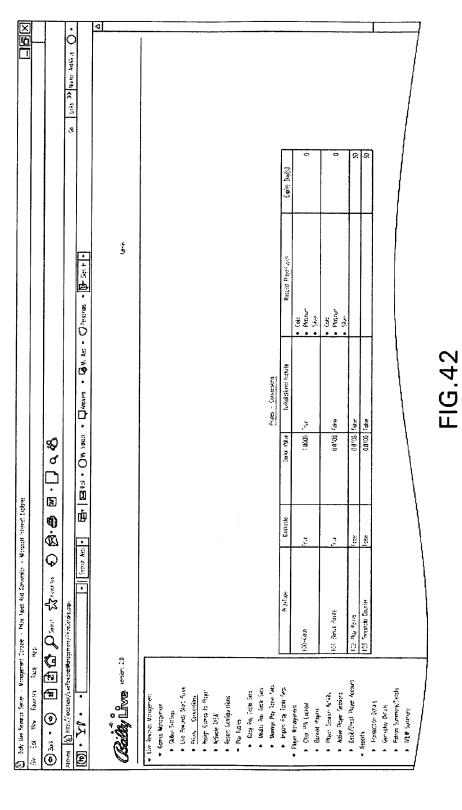


FIG.42A

| Pivelype              | Coshcible | Belor Yolue    | Jurisdictional Include | Mapped Payerlypes            | Expire (loy(s.) |
|-----------------------|-----------|----------------|------------------------|------------------------------|-----------------|
|                       | lrue      | 1.0ftty frue   | lne                    | Goo     Pichum     Sher      | Û               |
| \$ <del></del>        | โกษ       | 0,050) False   |                        | • Ges<br>• Perhum<br>• Siver | ٩               |
| ha.                   | Folse     | 0,0100 False   | Folse                  |                              | 8               |
| 103 Investoblicaunter | i uke     | 0.0100   False | i alse                 |                              | 85              |

Debit/Credii Player Account

Player Session Activity
 Active Prayer Sessions

Clear P.h. Lockout

Eanned Players

Plcyer Monagement

Polica Surmery/Details

MER Summary

Comeple, Data-s

Fronsoction Details

Prizes - Comersions

Wodily Pay Inble Sets
 Monage Pay Tone Sets

Copy Pry, hobie Sets

Report Contigurations

Poy Tobles

Activate NEW

Import Pcy Table Sets

Like Renords Start Rules

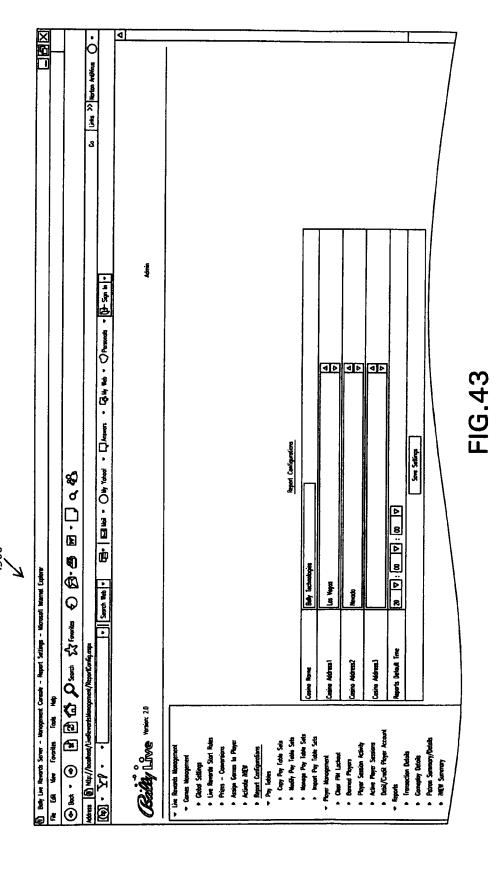
▼ (Ne Remards Management

Sames Monagement.

▶ Cabal SetSrgs

\* Assign Cames to Pisyer

Prizes Conversions



Report Configurations

Bolly Technologies

Cosino Marre

▶ Venage Pay Table Sels

mport Pay Table Seis

Vedity Pay Toble Sets

sies eldni foy fable Sets

Repart Configurations

sapp\_ ito<sub>c</sub>

Q D

Casino Address2

 Player Session Activity Act of Player Sessions

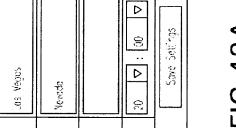
Casino Address1

Oear PIN Lockout

Eanned Players

Pig, ar Monagement

Q D



Reports Defout I me

Casino Address3

Cebit/Credit Player Account

Function Delais

Eumeoloy Details

► Use Rewords Start Rules

Assign Cames to Player

Activate MEW

Prizes - Conversions

4302

Lie Readds Management

• Commers Monagement

P. Crool Settings

Enton Summary/Delais

MEM Summary

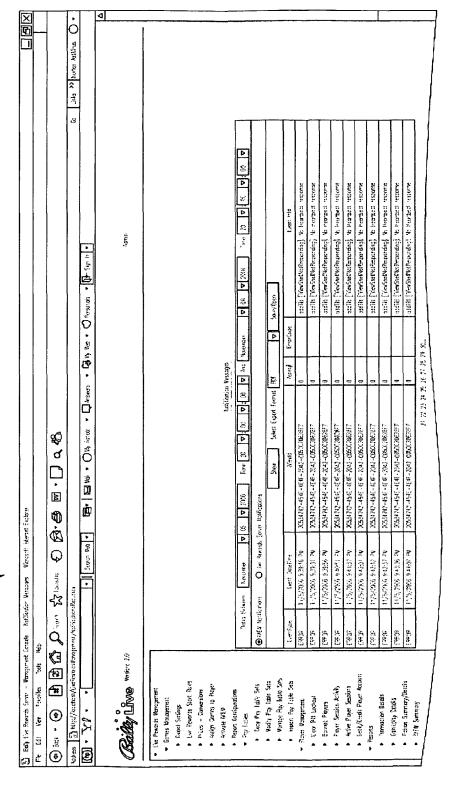


FIG.44

Octool Sellings
 Live Revauds Stari 8,18s

Live Rewards Manujerrent
 Cames Monogenent

Priera - Conversors
Assign Gomes to Player
Activeta 19PW

## FIG.44A

| Olyth Notice Bridge         Volume 10  | cincie 1969<br>Beeri Confinentiers |                   |                       |                      | Nulfector Vestores     |          |           |  |
|--|------------------------------------|-------------------|-----------------------|----------------------|------------------------|----------|-----------|--|
| W. Molificotions   |                                    | Jales Beiseen     | soverniber            | 9W2 🛕                | 20 A W                 | D And ME | Svemper   | ΔÿJ  |
| Shaw   Select isport forms   Pin   Paristra   Paristr |                                    | I.W. Abilifocións | 0                     | s Server Medicalians |                        |          |           |  |
| ENVELOR         Front Data Base         Meads         Assoit         Front Coe           LRNOR         11/5/2006         9-9-31         RK         23534742-454E-454F-2030C2063877         C         C           LROG         11/5/2006         9-9-31         RK         23534742-454E-454F-2030C2063877         C         C           LROG         11/5/2006         9-9-31         RK         23534742-454E-454F-2030C2063877         C         C           LROG         11/5/2006         9-9-31         RK         23534742-454E-454E-4054C2063877         C         C           LROG         11/5/2006         9-4-37         RK         23534742-454E-404F-2040C2063877         C         C           LROG         11/5/2006         9-4-37         RK         23534742-454E-404F-2042-000C2063877         C         C           LROG         11/5/2006         9-4-37         RK         23534742-454E-404F-2042-000C2063877         C         C           LROG         11/5/2006         9-4-37         RK         23534742-454F-404F-2042-000C2063877         C         C           LROG         11/5/2006         9-4-37         RK         23534742-454F-404F-2042-000C2063877         C         C   | e Sets                             |                   |                       |                      | Select Expect Lorner   | liki     | Ш         | Suve/Over  |
| UNION   11/5/2006 8-20-10 PM   2353742-454E-444F-20402065877   C     UNION   11/5/2006 8-20-21 PM   2353742-454E-444F-2042-005002065877   C     UNION   11/5/2006 8-20-21 PM   2353742-454E-44F-2042-005002065877   C     UNION   2353742-454E-44F-2042-005002065877   C     UNION   11/5/2006 8-20-21 PM   2353742-454E-44F-2042-005002065877   C     UNION   2353742-44F-2042-005002065877   C     UNION   2353742-454E-44F-2042-005002065877   C     UNION   2353747-2454E-44F-44F-44F-44F-2042-005002065877   C     UNION   2353747-24F-44F-44F-44F-44F-44F-44F-44F-44F-44F   |                                    | et lipe           | freu buehrre          |                      | Ments                  | Asset    | Friescing | Sen Iria   |
| ERFOR         11/5/2006 8-99.51 FM         235.4742-454E-44F-2040C206387         C           ERFOR         11/5/2006 8-245.6 FM         225.4742-454E-44F-2042-0050C206387         C           ERFOR         11/5/2006 8-47.5 FM         225.4742-454E-44F-2042-0050C206387         C           ERFOR         11/5/2006 8-47.5 FM         235.4742-454E-44F-2042-0050C206387         C           ERFOR         11/5/2006 8-42.5 FM         235.4742-454E-44F-2042-0050C206387         C   | CH41                               |                   | Sylvage allocite that | 23534742-4540-4046-  | -3042-00502063877      | 3        |           | addilli (Mer Shal Mat Pessanding). No Heuriteat response |
| LROP   |                                    |                   | 3/2006 3:99.51 FM     | 23534742-454[-4[4F-  | - 2042 - 0050 C2662977 | 3        |           | addilli (ide SealMolflesponding) No Hearbed response     |
| EMODE         11/5/2008 BATSE TM         2053042-454E-419F-203002062877         E           FRSOF         11/5/2008 BATSE TM         2053042-454E-419F-2042-003002063877         E           EMODE         11/5/2008 BATSE TM         2053042-454E-419F-2042-003002063877         C   | LR20                               |                   | 1/2006 ± 24:56 PM     | 2554742-454[-454]-   | -3042 - (OSOC20628F)   |          |           | addillt (WewShalMolResponding). No Heartbeat response    |
| 1850   17/5/2008 3-41-37 FM   763,41-27 4542 4447 7042 4050007063877   1   1   1   1   1   1   1     1     1     1   | <u> </u>                           |                   | Sylvoris a-40-51 Put  | 20531742-454C-4C4F-  | -2542-0050C20638F7     | _        |           | addilit [MawShelMetSesponding]. No Hearibed response     |
| ERROP   11/5/2006 3-42-21 FM   \$5534142-4545-4547-00402063877   0   |                                    |                   | NH /5:144 9000/3      | 70554747 4645 4545   | 2042 -035C21679F7      | 3        |           | addilit [MewShalfMalSesnanding]. No Heartheat response   |
| HROP   11/5/2006 34-51/2 HV   2054/42-454-2042-00500208877   |                                    |                   | No 152+5 3007/s       | -3434-454-454E-454E- | -2942-00502052871      | 3        |           | addilit [WewScellflafResponding] No Hemibed response     |
| FR69         11/5/2008 94537 FM         7353742-454E-4L4F-2042-00900208387         C           ERVOF         11/5/2008 94536 PM         2053742-454E-4L4F-2042-00500208387         C           ERROF         11/5/2008 94437 PM         2053742-454E-4L4F-2042-00500208387         C   |                                    |                   | ## 774P# 9007/6       | 2054 H2-464[-4[4F-   |                        | c:       |           | cidible (in the Small Meditary). In Heuritach response   |
| 3 (1829120000-2401-14-14-94-74110022 WE 1014-8-0007/6711 20801   |                                    |                   | AN UPONE SOUCK        | 22531747-4546-4046-  | 2542-0090C10628F7      | 3        |           | uddifit (WewShelMutResponding). He Hearboot response     |
| 3 (187500000-5401-149-1494-541420) WHITE HORZEL SUBMI  |                                    |                   | WANTE BASES PA        | 255442-444-444       | -2042-005EC3U628F1     | ۳.       |           | addill (WeathelMdiResonaire), No Hearibed response       |
|  |                                    |                   | 3/500E 3.44.37 PM     | 2059/112-454[-4[4F-  | -3042 -0010C2042877    | ĵ.       |           | oddilli (MewSrettfelfelpaddro). No Hearbed response      |
| a wan wan wan  |                                    |                   |                       |                      | 75 35 35 35 35 35      | 35 25 85 |           |  |

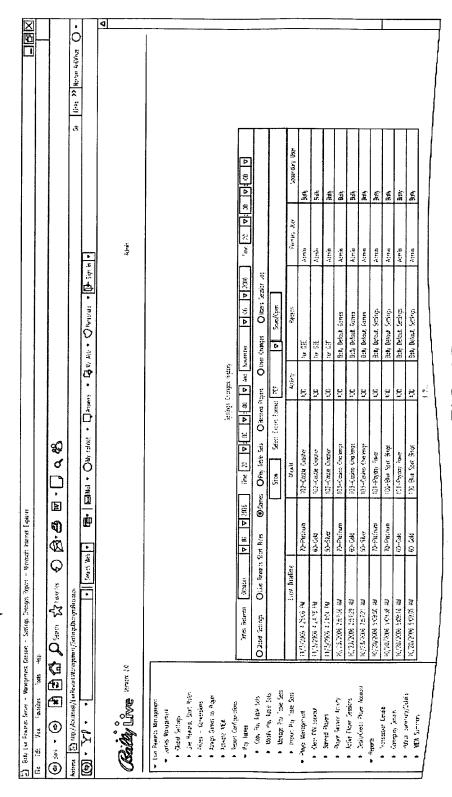


FIG.45

|      |   |  | inc 20   🛡 : (0                              |                                       |                          | Primary User               | Admin                | Admin                | Adriin              | <b>Ap</b> nin                               | Adria                       | A5nin                      | Agnia                | Admin                 | fugition.            | Agnis                |  |
|------|---|--|--|---------------------------------------|--------------------------|----------------------------|----------------------|----------------------|---------------------|---|-----------------------------|----------------------------|----------------------|-----------------------|----------------------|----------------------|--|
|      |   |  | D 06 ♥ D006                                  | Other Changes Others Session and      | nedQ/exoS 🔼 🛆            | Sesson                     | in Cif               | (a) (2)!             | (5) G2E             | 35ty Delauli Gerres                         | Paly Delouk Gomes           | Bolly Delauli Comes        | Bah Delaul. Seltings | Boty Default Seltings | Buty Derout Settings | Sury Delauf Settings |  |
|      |   |  | and November                                 |                                       | bik                      | रं अप                      | 30%                  | 405                  | NO.                 | 10r   | <b>3</b> 10                 | <b>30</b> 5                | 900                  | KOD                   | gija                 | dur.                 |  |
|      |   | Selings Compas History   | Δ (0) (Δ | Offin lable Sets Offerned Players     | Seect Espert Ferrici PTA | Weald                      | wisco Coster         | Mr. Jash Custer      | 102-Code Coare      | 193-Casine Protenge                         | 10.5 Casing Prolenge        | 1935-Tasine Sholenge       | in - interest        | 100-Bue Spox Bingo    | 1911 Saylary Pabee   | गंधन अन्य अवंद       |  |
|      |   |  | 24<br>24<br>24                               | ⊕ Uzmes OP                            | <b>*</b> 345             | **                         | er di                | o, ca,               | 100 - COL           | 197-Us                                      | 10.5 (28)                   | 19.5-Car                   | (A) - (A)            | 13C-3U                | Fg 101               | 10 - Pa              |  |
| 4502 | <b>✓</b>  |  | 01 🔽 2005                                    |                                       |                          |                            | 70 Hatrum            | <b>33</b> Co.1       | 52-55m              | เหตุใช้น-6/                                 | 193 E                       | 5d~55en                    | 711-Potionm          | M-Agringer            | 83-5ea               | 63-Gerd              |  |
|      |   |  | Poles Belwerr Delober 🔻                      | Otherd Schools Othe Revords Stad Aues |                          | emiliated free interiore   | WHI STATES HOUSE HIS | 11/1/2006 1:24:13 PW | Md 187167 9382/1/11 | M 8578 5 3505/20/01                         | <b>W 6</b> 2452 3100/12/11. | W 18161 9101670.           | W 05:001 9:007/50.01 | MY 8760 E 900/22/3.   | me diagne adagnagni. | W 10,000 307/21/31   |  |
|      | Like Asserts Novojement     Correst Management     Octob Sellings     Live Reserves Silvin Sues | Files - Carnestors     Assyn Genes 's Player     Activate 1/28     Activate 1/28 | saids laties                                 | Color and the Serv                    | Member for late byte     | Par Frager Pay Tages Serie | Poper Management     | ► Char PH _ NACL     | Pared Pages         | <ul> <li>Proper Session Activity</li> </ul> | Active Physic Sessions      | ■ Deci/Credi Poper Accredi | • Pepars             | First Settles         | Special Section ◆    | Parce Managaran      | ************************************** |

## FIG. 45A

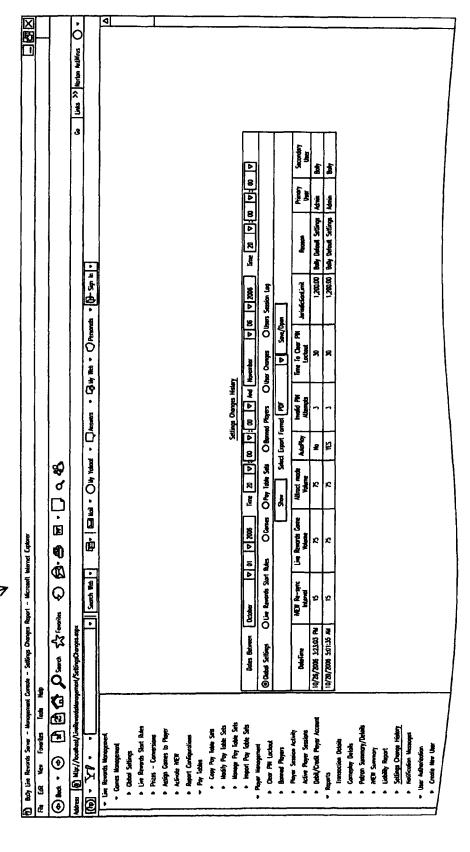
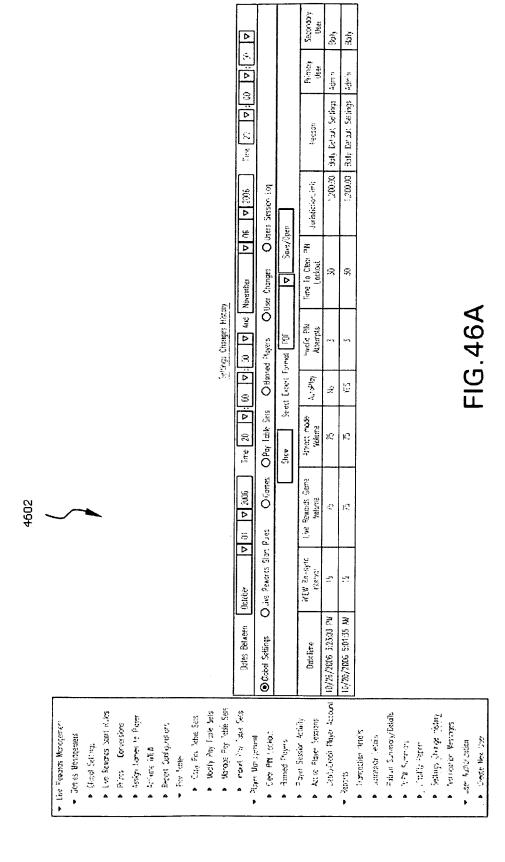


FIG.46



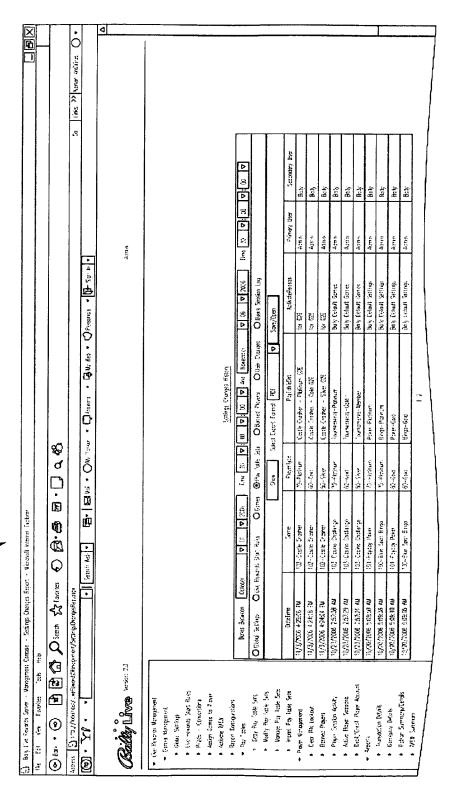


FIG.47

| 4702 | <u></u> |
|------|---------|
| 4    |         |

Clabal Settings
 Live Renards Start Bules

Live Renaulis Management
 Gomes Management

|                 |                        | Δ (0) :Δ                              |  |  | Secondary User           | But,                       | act.                     | Bely                   | 901                   | 3at;                  | 3cly.                | 364,                  | 3aty                  | 3ct;                   | ing.                  |        |
|-----------------|------------------------|---------------------------------------|--|--|--------------------------|----------------------------|--------------------------|------------------------|-----------------------|-----------------------|----------------------|-----------------------|-----------------------|------------------------|-----------------------|--------|
|                 |                        | hre 29 🛡 100 🛡 100                    |  |  | Primary User             | Actinio                    | Agrain                   | Agreen                 | Almin                 | attein                | -Lanin               | Admin                 | Agmin.                | 4drain                 | 4dmin                 |        |
|                 |                        | 1 20 18 A 28 CF 1                     | Oliero Session Loq                                     | Save, Caea                                 | Azingelegion             | la CE                      | in 02E                   | 64 GH                  | Both Default Comes    | Buly (ethalt Greek    | Bath Default Corners | Bolly Gefund Sertings | Boly Definit Selfings | Bolly Default Setfings | Both (Writed Selflays |        |
| :               | settings Urenges Heran | Of $[\Phi]$ (G) $[\Phi]$ and November | O'Gares © Ply Table Sels O'Barred Payers O'Use thurgas | Seatt Equit formal RRF 🔻                   | Pay apticel              | Custs Coaler - Plenum Cif. | Cast's Crasher - Gav CIF | Cash Conter - Sher Off | four-coments-Potinim  | Porcements God        | lounginging Aberba   | Pass - Pasinin        | Brigo-Patengu         | Puber Cat              | guic-Sab              |        |
| \$              | 361                    | Nove (20) (20)                        | ● Pay Yask Sels  | Stan                                       | etių isio <sub>l</sub> d | ที่ปี-คิญสายก              | 60-044                   | 50-She:                | M-Putrum              | 50-0sk                | 50-54ei              | M-Polmin              | 70-Puliram            | 60-Cad                 | 90-Cad                |        |
|                 |                        | 9007 🛕 10 🛕                           | O Live Percents Stort Rates O Corres                   |  | Gung                     | .ity-Costle Cousee         | 102 - Costle Lrusher     | 'U?-(naile Craver      | 'UJ-Casivo Chalenge   | 'OJ Casim Chatenge    | .O√-Cosive Challenge | 'úi-Pydy Pose         | chug pats ang-(i).    | "UT Payday PSS-an      | 'U)-Aux Spal Bings    |        |
|                 |                        | Unles Selveer Otlober                 | Occesi Sathas Olive P.                                 |  | कृतसम्बद्ध               | na 9052 a 9002/2/11        | M4 819KT 9002/0/11       | 11/3/2006 4,24:04 Pu   | 10/23/2006 2-57-38 AV | 10/21/2006 2:55:29 AM | 11/23/2006 25/21 AV  | 10/20/2006 3-04-30 NV | 10/20/2006 5/04:18 AV | 19/30/2006 5-08-11; w  | 10/20/2006 \$080: W   |        |
| Gonles to Prove | Cariburtions           | ches                                  | y Pay lattle Sats                                      | Sily Pay Table Sets<br>roys Pay Table Sets | ocri Pay Table Sets      | (mogernent                 | AR Lockput               | a Digers               | Session Activity      | Physic Sessions       | Kreth Phye Account   |                       | ndron Details         | gian Delak             | n Surmony/Details     | Summer |

| Style feat free - beginning the  | Greek - Selsigs Chmyrs Asport - Marselt Wened Edison | rod - Mareed           | frend Ediz            |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
|--|--|------------------------|-----------------------|------------|--------------------------------|----------------------|-----------------------|-----------------|------------------|-----------------------------------|-----------------------|---------------------------|---------|--------|---------------------|
| The Edit Year Spronges Tools 1945  | £  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
|  | Description  | Q                      | (A)                   | E D        | <b>%</b><br>♂                  |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| Same of a high films of the contraction of   | steragoniosas parti                                  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         | 3      | Che Politica Affice |
| ·  | •  | Stady Miss *           | ė                     |            | Ed Visi • One Yarwes • Querres |                      | •                     | \$ Per - O      | ferance •        | G by het . O ferzont . D Syn to . |                       |                           |         |        |                     |
| Cailing was 23   |  |                        |                       |            |                                |                      |                       |                 |                  |                                   | Aprile.               |                           |         |        |                     |
| - Let Grand Verageneri   |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| busuderem Buch .   |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| e Gand Grann   |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| * . ne Skoods Shart Riess  |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| Palities Constitution  |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| · kezign farmes so Player  |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| Luiste Miss  |  |                        |                       |            |                                |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |
| Report Contiguestra  |  |                        |                       |            |                                | ;                    |                       |                 |                  |                                   |                       |                           |         |        |                     |
| · An long  |  |                        |                       |            |                                | ¥                    | Street Option feet    | نسا             |                  |                                   |                       |                           |         |        |                     |
| . Cory Pay little Sets   | Dress Benter   | Δ accup                | 9302 🛕 🔞              | $\Box$     | inte III 🛡                     | <u>α</u>             |                       | kric Koversites | 50% A 30 A       |                                   | line X V              | A   X   A                 | Δ<br>(S |        |                     |
| Purch for for the Sea  | Others Selfres O                                     | Out Server Start Pates |                       | O terral O | O No Table Sele                | O Sumes Planes       |                       | O the Charges   | Olber Sessin .0; | çb. nzégi                         |                       |                           |         |        |                     |
| P Hoost in Inde Seu  |  |                        |                       | કહ         | П                              | Sett trans man 1938  | 7.<br>TO              | Δ               | SociOper         |                                   |                       |                           |         |        |                     |
| - Hayr Viropered   | #Ų, EKĄ  | 9. 50H                 | this first force from | Base Cone  | P P Start                      | Ext Care<br>(Vo. 34) | Brze Care<br>[Ws Bei] |                 | in the same      | Perajon<br>Contraction            | Sersion<br>Contractor | a) grade                  | Pincy   | (cpus) |                     |
| P Marce Seedon Seeds   |  |                        |                       |            |                                |                      | 1-cone                |                 | A Section        | October                           | hereage.              |                           |         | ¥      |                     |
| Autor Phage Seasings  Phale/Deak Paper Account   | म् का प्राप्तान संस्कृतिहरीन                         | N Asian 12300          | 9<br>201              | -          |                                |                      | Ç.                    | ō.              | e.               | 279                               | D                     | Sub-<br>tribut<br>springs | Ages 6  | 49     |                     |
| Parkis     Irranska Jenik  | 12,719,726, 540,57 w 10-ton                          | -(are 0,7505           | 8                     | -          |                                | ,                    | 0                     | í.              | rs.              | B                                 | Э                     | Han<br>Han<br>Edina       | Ate is  | Bat,   |                     |
| A Green Leader & State | 10,777/330 511215 tu 16 Sun                          | 2043 0 Jan 2           | £8.                   |            | you                            | •                    | ¢                     | ۵               | d.               | n                                 | n                     | au)<br>Maine<br>Serines   | y vary  | j.     | ,                   |
|  |  |                        |                       |            | ٠                              |                      |                       |                 |                  |                                   |                       |                           |         |        |                     |

FIG. 48

| < | 1              |
|---|----------------|
|   | $\mathfrak{X}$ |
| 5 | 4              |
| ( | 5              |
| Ĺ | Ĺ              |

|  |                         |   |  |                         | Secretory   | Baip   | Boly                            | ficil <sub>p</sub>                                       |
|--|-------------------------|---|--|-------------------------|---|--|---------------------------------|--|
|  |                         | Δ 00  |  |                         | Primay<br>Use   | Azimin B   | Aimin B                         | Admin B  |
|  |                         | : Δ (W) Δ                                   |  |                         | Reserv  | Beth<br>Defaut<br>Settings                             | Bal-<br>Resart<br>Sariogs       | Bah<br>Geradi<br>Selings                                 |
|  |                         | line 20                                     |  |                         | Session Session<br>Continuation - Continuation -<br>Octoration (represent           | ง  | בז                              | <b>.</b>   |
|  |                         | 11 3002                                     | dign. Jag  |                         | Session<br>Continuation -<br>Octurants  | ů.   | Ų                               | 2  |
|  |                         | Δ 90 Δ                                      | O Users Service Leng                               | Sme, Open               | Sagar<br>Ing -<br>Sagara  | ē  | 0                               | 2  |
|  |                         | -andraw                                     | Otter Groges                                       | Δ                       | Session<br>for -<br>Securities  | ස  | ES .                            | c  |
|  | Settings Charges Herary | <b>□</b>   3;   □   0   □   4·10   Naveniu- |  | 360                     | Pare Jone Bare Gand<br> Us. Ho.] =  Us. Bk.] -<br>Scalence   Parement               | 0  | Û                               | •  |
|  | Serings C               | ω:Δ   | ) Յարուս Բիր                                       | 3dest Eppat Furnal 205  | Pase Same<br> Vov Hos <br>Sociative   | <b>*</b>   | •                               | 1-   |
|  |                         |   | ) (** ***  |                         | Bare Joine<br>[Nymul<br>Play]<br>Increment  |  | 4                               |  |
|  |                         | lere M                                      | Osigness Often lathe Sess Oduncea Players          | 858                     | Bre Gire<br>(Nord<br>Eg. –<br>Starent   |  |                                 |  |
|  |                         | 2002  |  |                         | Live<br>Rewards<br>Game Start<br>Threshold  | 100  | 193                             | 101  |
|  |                         | Ι <u>Θ</u> Δ                                | Sart Fules   |                         | docing<br>Rate  | 9.250E   | 322300                          | JU\$270  |
|  |                         | Srieber                                     | oje feators  |                         | हांसे क्षेत्र   | 70 Plainum   | A)-Cebj                         | 50-51er  |
|  |                         | Dates Befacen Geteber                       | Official Sathrago Other Removes Start Rules        |                         | Baleine   | 10,70,7316 50,058 W 10 Flairum                         | 10/20/2016 5:02-13 44 50-5eB    | 1,756/108 5.02.15.80 50-Steel                            |
| Philes - Leverson  - basign Gares to Physic  - basines Mfa  - between conformation | • Phy lates             | Alex section for the Sales                  | • Matthy Foy Icele Selfs • Marinin Foy Icele Selfs | ▶ impart Ray Teate Sets | Player Maragement     Clear Pla Lockout     Barrest Players     Deservice Authority | Active Player Sessions     Destit/Deed: Player Account | Reports     Indisaction Details | Comediay theoris     Patron Summary (2010)s     Affice 5 |

Gebol Scrings
 Live Revords Stori Buks

Live Rewards Managament
 Cornes Managament

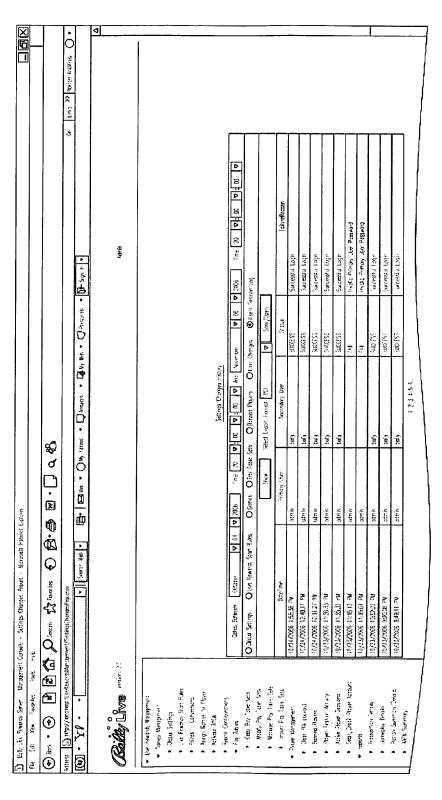


FIG.49

| character contra            |  |                 |  |                |   |
|-----------------------------|--|-----------------|--|----------------|---|
| . Live Periords Stort Rues  |  |                 |  |                |   |
| Phises - Contentions        |  |                 |  |                |   |
| P Assign Gomes to Flayer    |  |                 |  |                |   |
| P Activate WEW              |  | Salifa?         | Salition Changes Holes   |                |   |
| P. Report Configurations    |  |                 | A Commence of the state of the        |                |   |
| • Pay lanes                 | Uctes Beineen Ottober 🛡 🔃                  | ▼ 2006 True 20  | <b>□</b>   00   <b>□</b>   100 | 90 A           | □         □ |
| • Copy Pay Table Sets       | Objated Settings Outer Rewords Start Bulks | Oldres Oldrests | ets Offenned Popers Outer Changes  | Perges         | ύζει Ισς  |
| • Woully Pay Jose Sels      |  | , Al            | Calent Contra Comment (200   | ,              |   |
| • Wanuge Phy Table Sers     |  | ) NOV.          | 16. Journal 1995   | N Spreyden     |   |
| • frager ing Table bots     | المالية المت                               | Phintry Dier    | Secondary ther   | Status         | faltreReam  |
| * Hangoogn halo             | :0/24/2006 1-55:35 FM                      | #u,56           | auf.,  | SWRS           | Successful Logia  |
| P Cear PM Lockaut           | (6/24/2006 12 40:11 PW                     | odmin           | i júg  | SUCTESS        | Successivit topia   |
| - Bornell Popers            | 16/24/2006 12:11:27 33                     | gdmin           | acty   | 3511.375       | Successful Legin  |
| P. Physer Session Activity  | 10/23/2006 11:26:33 PW                     | ogenin          | todi).   | SECUS          | Successity Logia  |
| P. Active Payer Sessions    | 10/23/3006 11:25.32 PW                     | द्यापी          | nafy.  | 3377%          | Successful coqui  |
| Debbi/Gredii Player Account | 16/23/2006 1115/12 PW                      | (\$\$P.H        |  | 74.            | linedid Princing User Possamid  |
| Paperta                     | WHY 1020 11:15:04 PW                       | 32%             |  | τ <b>λ</b> .   | finalid Phinary User Possacia   |
| a Temporation Despite       | :0/23/2006 :10:52:22 Pu                    | म अर्थक म       | toty   | SECTS          | Successiol sopin  |
| Schapfley Getals            | 18/22/2006 1902:05 194                     | រដ្ឋមន្ត្រីព    | bak;   | SECURS         | ofar nessoon's  |
| e felich Summung Julais     | 10/23/2006 8-19:11 PM                      | athin           | 0.0€v  | <b>351.5</b> % | upon esercial   |
| A OUR SUBSECT               |  |                 | 3  |                |   |

FIG. 49A

| Control   Cont  | A Belt like Spaces from - Upperprint Large - Prom | May - visary 1 |                      | Andre Jumphiliads - Wester styne: Eding | B steams (-gan        |   |                |                     |                          |                         |                         |             |          |                            |
|---|---|----------------|----------------------|---|-----------------------|---|----------------|---------------------|--------------------------|-------------------------|-------------------------|-------------|----------|----------------------------|
| Color   Colo  | file foll fica inazies oses                       | £              |                      |   |                       | *************************************** |                |                     |                          |                         |                         |             |          | j                          |
| Contribution of the cont  |   | ď,             | 15 To 180            | À                                       | E                     | 8                                       | 8Ç)            |                     |                          |                         |                         |             |          |                            |
|   | Nove Drug Hadres (Inversoration                   | apment Purouk  | cours are            |   |                       |   |                |                     |                          |                         |                         |             | ß        | 1869 30 Marter Actions 10. |
| Figure Agents   Figure   Fig  | (4) · Y? · ·                                      |                | 0                    | met has                                 |                       | •                                       | ١٠             | ŀ                   | · Ohme                   | 1 - 52× c               |                         |             |          |                            |
|   | · des Reports throughout                          |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          | 4                          |
| Size     | * Out Salves                                      |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
| Summary   Others   Summary   Others   Summary   Summary   Summary   Summary   Others   Summary   Others   Summary   Others   Summary   Others   Summary   Others   Summary   S  | SELFE REMARKS STOT, PLESS                         |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
| Diene Reuent   Dien  | * Mits - Camericas                                |                |                      |   |                       |   | Pann hann      | t Atists Suchary/Om | 49                       |                         |                         |             |          |                            |
| Colored   Colo  | • Estim former in Paper                           | June Bela      |                      |   | Δ                     | _                                       | Δ 00 A         | puγ Δ ψ             | Δ                        | P                       | 8                       | 30 : A : 00 |          |                            |
| Section   | Foot Codesility                                   | (B) Summi      |                      | Ray Soil                                |                       |   |                |                     |                          |                         |                         |             |          |                            |
| See   2000   See   See  | · Pa lates  |                |                      |   |                       | S::ca                                   | Seech Export 1 | Tid zent            |                          |                         |                         |             |          |                            |
| SEAS DOMORADA RECLEAGURAR (EM) (127)         NAMINO (RD) (RD) (RD) (RD) (RD) (RD) (RD) (RD)   | Conv. Pay lene less     Maziy Pay lene Sees       | ASude          | 9 Share              | ida Gares<br>Papes                      | ंधाओं दिवाल<br>नेदिया | Total Pin.<br>Puells in                 | Fort Pa        | last instrud        | lea freshau<br>Gases Dai | ક.ભ્લું લાગુ<br>ક દેશના | Sold Break<br>Parts Sal | eta (ass    | 100. Com | - "                        |
| Mathematical   Math  | · Wronge Pay Take Seas                            | 40 E0000       | -                    | E.M.                                    | 379                   | 3%                                      | 808            | 000                 |                          |                         |                         |             | 000      |                            |
| OCCURRED Centries         Columnia Centries         CORD         0.20  | ownership falls Seo.                              | 3020E145       | ***                  | a a                                     | 300                   | 000                                     | 900            |                     |                          |                         |                         |             | 000      |                            |
| 10000000   10000000000000000000000000   | · the tangeer                                     | 20200393       | 7                    | 100<br>100<br>100                       | 000                   | 3.20                                    | 60             |                     |                          |                         |                         |             | CVO      |                            |
| 1,  | Den Peterson                                      | 20000000       | ES:                  | na                                      | 000                   | 3.30                                    | an a           |                     |                          |                         |                         |             | UTO      |                            |
| 1,  | * ânred Byers                                     | 30237.14       |                      | 80                                      | <b>20</b> 0           | 515.00                                  | 0.05           |                     |                          |                         |                         |             | 000      |                            |
| Recovery         Montanery         8.00         9.00  | P. Paper Senties Actably                          | 30,757.135     | Chaidfedera          | 1.01                                    | X.                    | ETH.                                    | MW:            | ww.                 |                          |                         |                         |             | CVD      |                            |
| Marchelle   Marc  | * Atthe Plops Section                             | 20020136       |                      | 000                                     | 390                   | 13.30                                   | 0.00           | 3.30                |                          |                         |                         |             | 0.05     |                            |
| 1000-2014   Remarks   100     | * Rebl/Knett Phyer Account                        | 30220117       | **                   | 900                                     | 300                   | 15.00                                   | atin           |                     |                          |                         |                         |             | ugu<br>T |                            |
| 100,000   10,000     | sheep   | 3000000        | Retuintege           | 910                                     | 300                   | 216                                     | (0.0)          |                     |                          |                         |                         |             | ggr.     |                            |
| 2007/2014 Transley         100         0.00 <td>irreation (mols</td> <td>4000000 B</td> <td></td> <td>3(0</td> <td>23</td> <td>£.55</td> <td>นอง</td> <td>)#(</td> <td></td> <td></td> <td></td> <td></td> <td>81</td> <td></td>   | irreation (mols                                   | 4000000 B      |                      | 3(0                                     | 23                    | £.55                                    | นอง            | )#(                 |                          |                         |                         |             | 81       |                            |
| March   Parchelle   100   100   150   120   130   130   130   140   13  | • Gamestry Jeto's                                 | 30723040       |                      | 0,00                                    | 300                   | 330                                     | ac o           |                     |                          |                         | 97.                     |             | caro     |                            |
| 2007/2014 Certification         2.00         60.00         50.00  | P Papen Tarreng/Brich                             | 30.239H        | ismēsēr              | 90%                                     | 300                   | 45.70                                   | OT TO          | 3.70                |                          |                         |                         |             | COD      |                            |
| 2002/0145 C+645/mers  | * NEW Summer                                      | 30020145       | Sen Senting          | 8)%                                     | <b>3</b> 0;           | 55.U                                    | 20.02          | 0.51                |                          | Ţ                       |                         |             | 0.00     |                            |
| 100000144 _cm, withows a too 6.00 1.04 0.05 1.00 0.00 5.00 5.00 5.00 5.00 5.00  | • Logisty Paper                                   | 2002/20145     | ChristSupari         | 1.8                                     | 30:                   | 137.10                                  | 100.00         | 51,00               |                          |                         | <b>3</b> 070            |             | 0.60     |                            |
|   | Selvings Chemps History                           | 302550148      | . <u>அர்சிலி</u> கள் | nm<br>nm                                | <b>100</b>            | 380                                     | 30 U           | 5.00                |                          |                         | D.Y.O                   |             | GV9      |                            |
|   | <ul> <li>Volffortion Pressupes</li> </ul>         |                |                      |   |                       |   |                | ₹-1<br>             |                          |                         |                         |             |          |                            |
| Figure Assets the State of the | - the tubilitation                                |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
| Fig. tears  Uppg highert  Incommend depayment   | * Greate has the                                  |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
| Dergi physics     Dergi physics     Inneared throughour:  | क्षेत्र (वेश एक्षयः<br>• (वेश एक्षयः              |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
| a located Undered   | • Chrys Arrested                                  |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          |                            |
|   | • learning the poet                               |                |                      |   |                       |   |                |                     |                          |                         |                         |             |          | Þ                          |

FIG.50

5002

Lie Reards Wonogeneri
 Geries Management

| < | 1 |   |
|---|---|---|
|   |   | ) |
| L | ( | ) |
| ( | ľ | j |
| ī | Ī | _ |

| s - Cerenions                             |                     |                    |                     |                   | निवार                 | Patron Kooun Kainty Sumosy/Delais | Jamo, / Uniaks           |                             |                |                     |                           |                   |                     |
|---|---------------------|--------------------|---------------------|-------------------|-----------------------|-----------------------------------|--------------------------|-----------------------------|----------------|---------------------|---------------------------|-------------------|---------------------|
| m General to Physics                      | किंच स्थाप्त        | Parameter Property | Δ                   | 3002 <u>V</u>     |                       | Δ : α                             | pω <sub>1</sub> Δ (ω):   | Noverte: 🔻                  | <u>Δ</u> 30    | X85 1mg             | Δ<br>Ω                    | 00 <u>a</u>       | P                   |
| die wo <b>s</b><br>od Codiquations        | Same)               | ) O batob          | flor Cad            |                   |                       |                                   |                          |                             |                |                     |                           |                   |                     |
| anthes.                                   |                     |                    |                     |                   | Shak                  | Select Lapori formai              | ormyi 7DK                | ασάς/α•ος Δ                 | upago<br>(poeu |                     |                           |                   |                     |
| up, Pcy lette Sels<br>ediy Pcy Table Sets | Hairak              | Ribbre             | lata Cones<br>Hayes | loid Sames<br>Non | Toial Oly<br>Poèts In | Total Play                        | ldd freshod<br>Carter In | Tatol Thesfold<br>Combe Out | _              | 20 Brus<br>Spris 'n | iolal Banza<br>Uzints Cut | ivis Cosh<br>n(1) | icio Cost<br>Ori(8) |
| caroge Pay Vable Sets                     | 67 1 20 20 E        | Recentations       | <b>9</b> 00         | 000               | 9.80                  | 300                               | 000                      | 0                           | 000            | 0.5                 | 000                       | 93                | 0.00                |
| recri Pay Table Sets                      | \$1100000           | Persethnich        | 30'0                | 000               | 0.00                  | æc                                | 000                      |                             | 000            | 80                  | 00'0                      | 000               | 000                 |
| Herryfineri                               | 30000150            | Jonn I at          | <i>0</i> 03         | 000               | 0.00                  | 0.00                              | 000                      | 0                           | ŭij            | 000                 | 0.00                      | ωo                | 000                 |
| 5 fill access                             | 000220130           | Berotocki, orny    | 907)                | 000               | 0.00                  | 000                               | 000                      |                             | 000            | 000                 | 9379                      | 000               | 000                 |
| ned Physis                                | 0002201.W Coltisear | Ccitistan          | താ                  | 000               | 315.60                | 3.00                              | 00%                      |                             | COD)           | (C)                 | 00.0                      | 930               | 000                 |
| e Seator Adiaty                           | 000220135           | Chef. Wedernu      | 3D':                | 1001              | 182.25                | ന്ത്ര:                            | MAN                      | 0                           | 30.00          | 300,000             | 070                       | 000               | OGO.                |
| ve Player Sessions                        | 000220136           | Per J. Modern      | ርርር                 | സ                 | N.N.                  | 0000                              | 200                      | 5                           | ŭ o            | 000                 | 000                       | 200               | 000                 |
| UCod Pope Account                         | 11111111111         | Methorners         | ວນ                  | 000               | 15.60                 | <b>a</b>                          | W)                       | 5.                          | 000            | 800                 | 93.0                      | 000               | 000                 |
| va  | £1077000            | Rub usbisse        | CCD                 | 000               | 0,15                  | OC O                              | 862                      |                             | citi           | 35                  | 00'3                      | 33                | 700.7               |
| socion Details                            | 000072339           | Westerfission      | 000                 | 000               | 48,75                 | 0.00                              | 7.00                     | 5                           | 000            | 00.0                | 0.00                      | 000               | 1,00                |
| erny Detals                               | 000223140           | frei Set           | ርርው                 | 0.00              | 0.00                  | 000                               | 000                      | -                           | 000            | 0C)3                | 9973                      | (0)               | 000                 |
| un Summan/Details                         | 1000000             | iom, Brity         | າກວ                 | 000               | 1900                  | 0CU                               | W.C                      | E                           | 80             | S.a                 | ענע                       | ത്                | 000                 |
| h Summy                                   | 00022014)           | lem.Sentero        | 700                 | 100               | 255.00                | 00000                             | 0001                     | _                           | 000            | 00 úr.C             | 0)((c                     | 10,00             | 000                 |
| filiy Report                              | 000223143 Chia.Sch  | Origi Serve        | ώΣ';                | 100               | 132.14                | 0000.                             | \$1.00                   |                             | 20.00          | 00 Op               | 00.0                      | 15.00             | 60                  |
| ngs Change Hazan                          | 900225144           | Sery McConor       | നാ                  | 000               | 0.95                  | 000                               | 5.00                     |                             | 0070           | 000                 | 00.0                      | 25.00             | 83                  |
| riculor Versuges                          |                     |                    |                     |                   |                       | · .                               |                          |                             |                |                     |                           |                   |                     |
| Uranization                               |                     |                    |                     |                   |                       |                                   |                          |                             |                |                     |                           |                   |                     |
|   |                     |                    |                     |                   |                       |                                   |                          |                             |                |                     |                           |                   |                     |

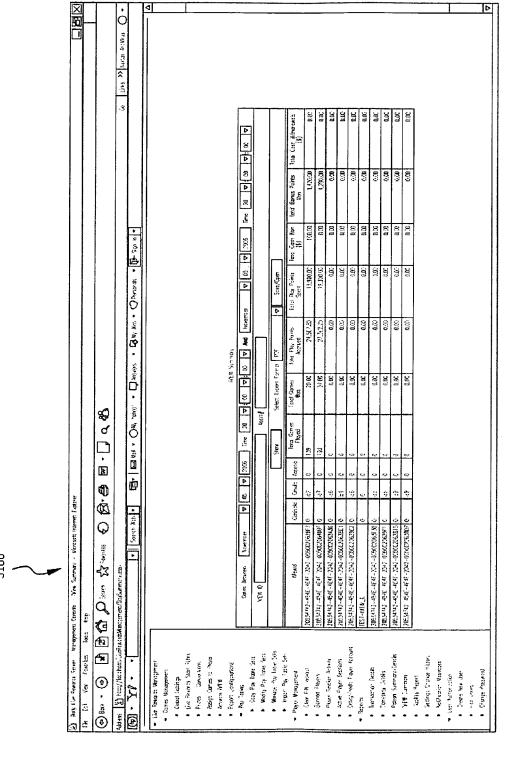
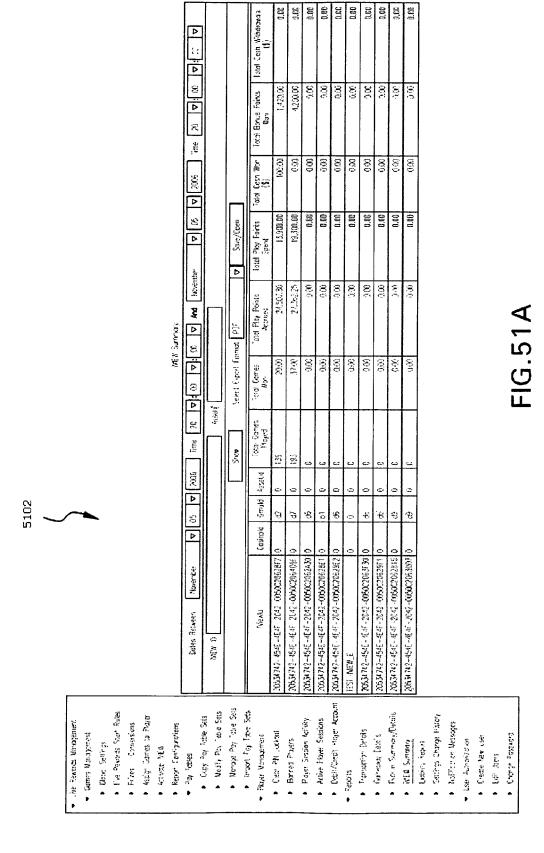
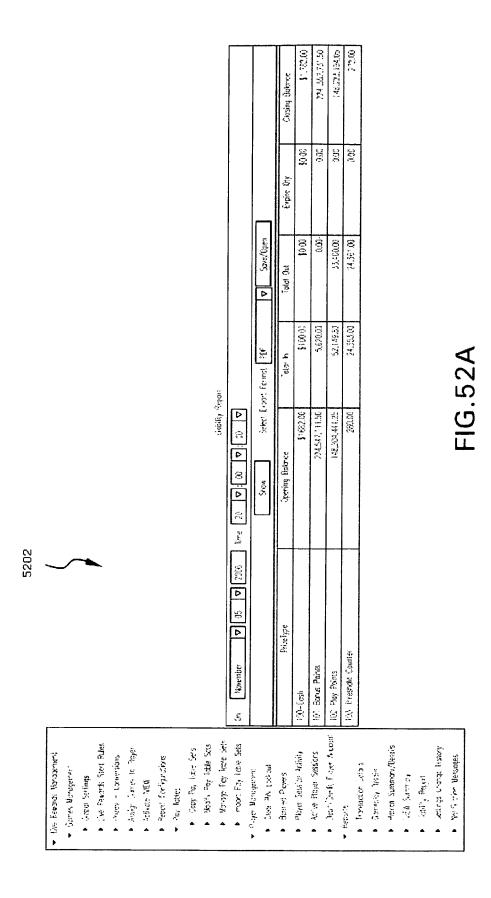


FIG.51



|       |  |                                      |   | Lints >> Morton Activins 🔘 •  |               | 4 |                    | -,,,                      |                 |                          |                     |                        |                |                       |                 |                       |                       |  |                                       |                  |                         |                          |                             |                       |  |                        |            |                    |                           | ۵                   |
|-------|--|--------------------------------------|---|---|---------------|---|--------------------|---------------------------|-----------------|--------------------------|---------------------|------------------------|----------------|-----------------------|-----------------|-----------------------|-----------------------|--|---------------------------------------|------------------|-------------------------|--------------------------|-----------------------------|-----------------------|--|------------------------|------------|--------------------|---------------------------|---------------------|
|       |  |                                      |   | 8   |               |   |                    |                           |                 |                          |                     |                        |                |                       |                 |                       |                       |  |                                       | Closing Belonce  | 00'20'1\$               | 05/12/25/3/20            | 90'161'522'91               |                       |  |                        |            |                    |                           |                     |
|       |  |                                      |   |   | • ¶ 165-40] • |   | Admin              |                           |                 |                          |                     |                        |                |                       |                 |                       |                       |  |                                       | Espire Oty       | \$0.00                  | 0,00                     | 0000                        |                       |  |                        |            |                    |                           |                     |
|       |  |                                      |   |   |               |   |                    |                           |                 |                          |                     |                        |                |                       |                 |                       |                       |  | ued0/aus [A                           | Total Out        |                         |                          | 33,400.00                   | 300 24,361.00         |  |                        |            |                    |                           |                     |
| o     |  |                                      |   |   | • 🗖 Answers   |   |                    |                           |                 |                          |                     |                        |                |                       |                 |                       | Lichardy Report       | <u> </u>                               | Seket Export Format POF               | Total th         |                         |                          |                             | 280.00 24,353.00      |  |                        |            |                    |                           |                     |
| \$200 | Explorer   |                                      | 20.00 E · □ · 28                                      |   |               |   |                    |                           |                 |                          |                     |                        |                |                       |                 |                       | - Ir                  | 2006   time   20   9   40   9   40   9 | 300                                   | Opening Bildonce | 13                      | 224,547,111,50           | 148,204,444,25              |                       |  |                        |            |                    |                           |                     |
|       | Baby Live Remards Server - Monagement Console - Lichally Report - Microsoft Inhamat Explorer |                                      | Q   | perment/Lichtelyftep.aspx   | Search Web    |   |                    |                           |                 |                          |                     |                        |                |                       |                 |                       | l                     | On Monember   🛡   05   🔝   2006        |                                       | Preelype         | HD-Cesh                 | 101-Bones Points         | 102-Play Points             | 103-Threshold Counter |  |                        |            |                    |                           |                     |
|       | Buty Live Rewards Server - Monogement C  | File Edit Vicer Feveriles Tools Help | Sect . (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | Address (E) kitp://bcofhost/LindSevordsHonogement/LindSiffyRep.aspx | · · /4. · (%) |   | Cailey Live win 20 | - Live Heracks Monagement | Clobal Selfings | Live Rewords Stort Rules | Prices - Comercions | Assign Genes to Player | * Activate NEW | Report Configurations | TO THE TO THE T | though Pay Table Sets | Manage Pay Toble Sets | · Impart Pay Toble Sels                | Physic Management     Ober Pin Lactor | Bonasi Players   | Player Session Activity | P Active Player Sessions | Debit/Credit Player Account | - Reports             | francction Details     Connector Details | Potren Semmery/Details | PER Summay | . Liability Report | P Settings Change Hastony | P Nethcoom Methoges |



| 1  |          |                                   |                                  |                | +  |                      |                   |        |             |            | 7                    |   |
|--|----------|-----------------------------------|----------------------------------|----------------|--|----------------------|-------------------|--------|-------------|------------|----------------------|---|
| The   Divis   Obj. 1901   Class   Classes   The   Divis   Classes   The   Divis   Di   | Serie    | ∑} tagita                         |                                  | Γì             | <b>&amp;</b>   |                      |                   |        |             |            |                      |   |
|  | 8        | Octions<br>To recommend to page 1 |                                  |                |  |                      |                   |        |             | 3          | Lide >> herest miles |   |
| Proceedings   Process      | I        | =                                 | Ė                                | O - 198        |  | No • OPeranas        | - 1. ex.          |        |             |            |                      |   |
| Section   Secretar   |          |                                   |                                  |                |  |                      |                   |        |             |            |                      | 4 |
|  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      |   |
| Section   Newtone  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      |   |
| © Birth         Page Conf.         The Page Conf. <td></td> <td></td> <td></td> <td></td> <td>20 mm 2 m</td> <td>į</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>   |          |                                   |                                  |                | 20 mm 2 m  | į                    |                   |        |             |            |                      |   |
|  | l        | 1                                 |                                  | ļ              | The same and   |                      |                   |        |             |            |                      |   |
| ⊕ Birst         Phys. Conf.         30c. 320c         30c. 320c         No. 220c  | 25 Sept. | _                                 | A 36 A                           | ž<br>T         | V: 00 V  | Δ                    |                   | Ĭ,     | ( A ( ) A ( |            |                      |   |
| Highway   Temponitive   State   Stat   | Ē        | ⊕ Bet:its                         | Physic Cost                      |                |  |                      |                   |        |             |            |                      |   |
| Holimen   Temperation   South   Sout   |          |                                   |                                  | Proc           | the same topol the   | Ш                    | [ <u>.</u>        |        |             |            |                      |   |
| Hearty Table   1/2/2006   1-4545 at   444  | 1        | Pl Blore                          |                                  | date           | Spirow)  | in 3g                | 34,74,78          | 100.00 |             | -          |                      |   |
| Heavy 18 cm   1/2/2008   14/2008     |          | Meditor intuit                    | Ş                                |                | ENDS 1816-1816-XVI-000000017   | AND SPECIAL SECURIOR | Proce             | Set:   |             | <u> </u>   |                      |   |
| Heading   Faces   17/2/2006   19/2/2006    |          | brilliey labour                   | 11/3/2016 11/2/55 48 16:4        | r3             | 694342-4545-4(4F-343)-053(2X6697)  |                      |                   | Credi  | 1.05 tra    | Committee  |                      |   |
| 13   | -        | legiery fatorit                   | 11/4/2006 11:38:56 441 (Sime Pt. |                | ig.  | स्टा टाक             | i                 | Fee A  | 100.00      | (brathat   |                      |   |
| USI CACO   11/2/2006   15-607   20   146   | _        | tection; infeet                   | 11/2/2016 11:48:56 AM Some PA    |                | 8  | S.Co., 226           | Pressets Caume    | Ges.   |             | Camrinos   |                      |   |
| USA CAS   11/2/2008   Higher   20   11/2/2   | -        | (3r. C45)                         | 11/3/2006 11:58(7) 20 Mee        | 22             | 514742-1547-4547-2842-65332564161  |                      | Fried 18          | e c    | 15.02 NB    | (annthe)   |                      |   |
| U.S. CACO   1/2/2005   |          | EST. CAR.)                        | 11/3/2006 11:53.07 4/4 3/6+      | 7.             | 89472-450-4(#-334)-035CX64(BT  | Ten fire deposi      | imposes Course    | ં લ્હા | 5.07 NB     | Santies    |                      |   |
| UNI CASO   11/2/2006   USAD 28   U   |          | ES. C40                           | 11/2/2003 11:59 CB AM SOUTH PA   | Ī              | 2  | AGE OWE              | Any Points        | 3.5    | 0.0005      | Committee  |                      |   |
| State from the control of th                        |          | (13), C42)                        | 11/3/7006 11:54 CB 44 GJP; PL    |                | )  | AG 320               | freshible Counter | 25     | er w        | Cammittee  |                      |   |
| Name Area         11/3/2005   Bergin al. Mas         20.51/20-2016   Mass   Part   Mass  |          | 1014 April                        | 11/White 115aft as the           | 25             | String and the preprocessing   |                      | A1, 10ms          | [·sd:  | 133.5 MI    | (sprinted  |                      |   |
| State State         11/3/000 15.53 at State State         State Sta  |          | ferre Aten                        |                                  |                | 214.02-154 - 4.41-2542-0250216977  |                      | freque Comm       | Credi  | 15.00 kg    | Committee  |                      |   |
| Fight Agent   1/2/2006   1/2/20   |          | Suppl Style                       | 11/3/2005 11:51:38 48 Some Pt.   |                |  |                      | Ay Posts          | Z.     | 170.00      | E          |                      |   |
| Fig. 2012   11/2/2006   15-50-200   2012   2012   2013     |          | Synt Azer.                        |                                  | ور             |  |                      | 27.7              | 2.5    | iene ma     | Curre      |                      |   |
| Fig. 602   11/ATMS   2517 at 1864  | 9.0      | front Azer                        | 11/3/2016 11:52 to the fire      | orth Server A. | in the second se | žž.                  |                   | Ceed   | 145.05 kg   | Contractor |                      |   |
| INTERPORT TO SECOND TO SEC | 67.0     | turb Meet.                        | 11/1/2006 1:53.17 40 35st        | ÷4             | CATALOGO CONTRACTOR CONTRACTOR   | Year from alternate  |                   | Peta   | STLOS KB    | Form-thes  |                      | 1 |
| 4  |          | R5. C43                           | 11/1/1026 H. Selector All May    | 7              | MALES THE GAS TOO SECURED ST   | Yes fire deposit     |                   | E      | 70,05 140   | Springles  |                      |   |
|  |          |                                   |                                  |                | 1.214402898  |                      |                   |        |             |            |                      |   |
|  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      |   |
|  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      |   |
|  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      |   |
|  |          |                                   |                                  |                |  |                      |                   |        |             |            |                      | Ī |

FIG.53

| 4  |   |
|----|---|
| ~  | ) |
| נכ |   |
| ٣  | ) |
| ū  | _ |
|    |   |

| A CANCOLLANT COLUMN                   |            |  |   |                     |  |                     |                   |           |          |              |             |
|---------------------------------------|------------|--|---|---------------------|--|---------------------|-------------------|-----------|----------|--------------|-------------|
| P. Frites - Lawerston                 | _          |  |   |                     | Pater Account Activity Summay (Betals  | Alc:                |                   |           |          |              |             |
| Assign Carres to Flave                | Britie     | Ontes Between November   | 9) [4   | ] 30.6 Jene [       | P-+ (0) (0) (A) (0) (A) (V   | Novembe 🔽           | 9002 🛆 90         | £ 1       | 00 : 0   | ω : Δ : ω    | Δ           |
| Sexual Conformation                   | Adultar O  | O Summay    Bears  | Player Corol                                  |                     |  |                     |                   |           |          |              |             |
| 100 m                                 | ·<br>!     |  |   |                     | ]  |                     |                   |           |          |              |             |
| Can A land Mr.                        |            |  |   | \$30 <b>A</b>       | Select Expart Formal 976   | A Some Open         | 1,51              |           |          | ;            |             |
| 「「「「」」」」」」」「「「「「」」」「「」」「「」」「「」」「「」」「「 | PLY_Drafts | P.P. Acting  | i conflote lime                               | Souce               | Sourcek  | Total Dat           | Pricely pe        | addp.c.i. | liortanë | urisacional  | हुन्दर म्ह  |
| Nuncte Per Intel Sera                 | 35027500   | Jestiney istrati   | 11/3/2006 11:4855 AM                          | 753                 | 70554 (4) -4548 -4146 -7042 -111500 70535F F   | New diect deposit   | Play Points       | Credit    | 5.35     | S.           | Committees. |
| Propert Fig. 1920 Sets                | 000427534  | 000422554 Jeoffrey intron  | _   | 1100                | 20131742-4546-4149-7042-005002052877 New overs deposit   | Mex Grect Opposit   | I wesheld Counter | Credit    | 33.      | · 92         | Committed   |
| This Manage Annual Print              | 00047334   | CCH72534 Jestiney Tolcon.  | 11/1/2006 11.45156 AM Game                    | Game Ray            | The state of the s | FCN CAME            | Pley Paints       | Ness,     | 190.03   | G            | Corrected   |
| Oten Phi Loons                        | 00042534   | deather intent   | _   | Cerne Pay           | 22   | FOR GRE             | Treshold Curries  | E         | 2012     | :            | Carrelled   |
| Barner Capers                         | 207756545  | 29776545 [EST. CAS)  | 11/3/2026 11:30:07 AV Nov-                    | New                 | 20114112 454E-414F-2042-8050C00540EF (Yes diec) deposit  | ifea diect deposit  | Pley Puries       | red;      |          | 8            | Committees  |
| • Player Session (4778).              | 24755743   | PATTERNS 1731, 0.00  | 11/3/2006 11:50:07 AM                         | Mys                 | 20034742-464[-4745-2042-ARENIENSAGST 1864 describings  | idea dieci deposi   | Freshald Counter  | Ç.        | 503      | <del>.</del> | Correlled   |
| P Arrive Paper Second                 | 26. 68543  | 55 (654) [15], CARO  | M 3006 11:500/1/11                            | Come Pay            | 33   | BEEN CALE           | Pty Jarks         | ¥.pg      | 130.00   | 13           | Committed   |
| Child On St. Cuest. Acrount           | 367765545  | \$4766545 TEST, CARD   | 11/3/2006 11:00.08 AM Geme Play               | Gersa Play          | 125  | BECH CAVE           | Investors Course  | Peri      | 8.8      | 9            | Carmited    |
| श्रास्थ्र •                           | 61.0270au  | MW23749 Frank Meet   | M (3/2018 111-5/10/11)                        | lies                | 2654747-454E-4545-2042-11180(258257) 784-454E-4503   | lifes abed deposit  | Pley Points       | £         | 123.75   | Ş            | (anni) ed   |
| • Integration Sets?s                  | 61:62:500  | 000273113 Irask Aberi  | 11/3/2006 11:5::07/3/J1                       | New                 | 2005/47/2-45/6-41/48-2042-1004CC062677 West deposit  | iven ainci deposit  | Intestold Counter | Į<br>E    | 18.EE    | Ç.           | Committee   |
| Correpcy, Deteils                     | 61,62,000  | 0002019 Frank Nteri  | 11/1/3006 11:9:08 AM Geme Flor                | Geme Flay           | 70   | BECH CARE           | Per Ports         | Rahi      | 190.GC   | 2            | Committee   |
| Pare Surrey Jeals                     | 61.65006   |  | 11/3/2006 11-51-08, AM Summ Plea              | Spine Pky           | 7 <del>.</del> 7.  | ECH GNE             | Innehold Courter  | <u> </u>  | EIX.     | Ç,           | [Allemano]  |
| NEW SURMON                            | MT3746     | fram Med   | 11/3/2006 11:52:40 AV Jie Beauch Gaver Acrein | ine fiewards ferver | n,ay   | ¥                   | Carth             | 35.0      |          | Ç,           | Serviced    |
| ■ Lethily Report                      | 61.02300   | 0002019 Iran Med   | 11/3/2006 11:53:11 AM                         | 7:54                | 205,14742-1541-4246-2042-0050C2052577 New since withdraws  | Hen Steel withdraws | tro.              | Dest.     | 23.15    |              | Committee   |
| P Selfings Trange Pittery             | 397/36545  | 1151, 0490   | 11/3/2006 11:54:54 AM                         | بابته               | 20534747-4548-4547-2042-0050CD32877 Wen dieci deposit  | ifea dieci deposi   | Phy Parks         | Dehk      | 30.0r    | 4.5          | Carmited    |
| Maringol or Messages                  |            |  |   |                     | ন প্ৰিক্ত কৈ কুল   |                     |                   |           |          |              |             |
| - 156f Aufhor 199 on                  |            | <b>THE STATE OF THE </b> |   |                     |  |                     |                   |           |          |              |             |

3302

Lite Respits Uprogener
 Coner Noncomment

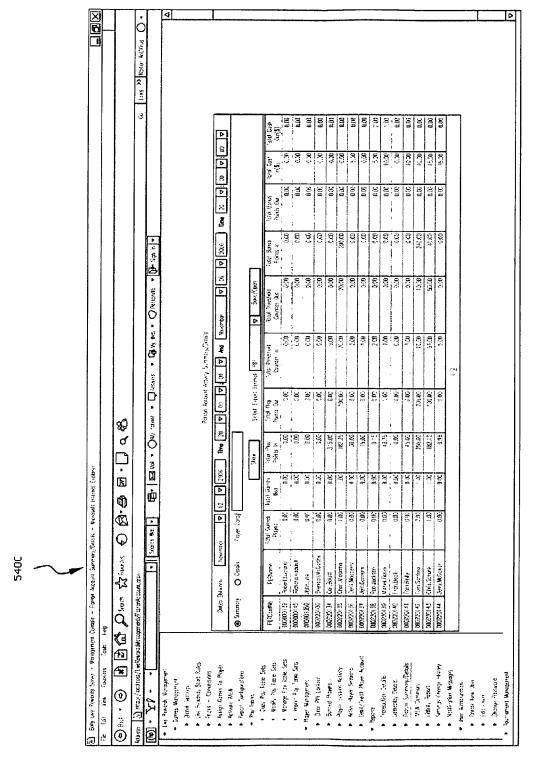


FIG. 54

5402

Live Pekatids Monogentati
 Gomes Manogement

| <ul> <li>Live Augusts Stort Rubes</li> <li>Prices - Consessions</li> </ul> |            |                    |                       |                   | ñ.                    | Paison Acount Acidist, Summany/Initals | is surranglateds             |                               |         |                           |              |                       |
|--|------------|--------------------|-----------------------|-------------------|-----------------------|--|------------------------------|-------------------------------|---------|---------------------------|--------------|-----------------------|
| Action Connect to Player   | Jates      | Jates Balkeen Yors | Koserter 🔽            | 30 🗗 308          | 2 <b>2</b> 2          | Δ 93 A (                               | Pυγ   Δ   00   :             | November V                    | %<br>_A | च अरह                     | Time X 🛡     | g                     |
| art quatiens   | • Surferry | O femis            | Photo confi           |                   |                       |  |                              |                               |         |                           |              |                       |
|  |            |                    |                       |                   | Show                  | Select Figure Ference PRE              | ternes. PGF                  | uady/avos 🛕                   | Úçen    |                           |              |                       |
| F. Light Proj. lather Sets. F. Modify, Pay. lather Sets.                   | HRanth     | A Ewne             | Total Danes<br>Flayed | fold Comer<br>Won | Todal Pay<br>Peins In | Torof Play<br>Ponts Our                | iotal investida<br>Caucier P | Total theshold<br>Counter Out | 2       | त्यानी स्थान<br>निवाधित व | ident Bows   | 2) Sk<br>2) k<br>3) k |
| e Pay Table Sets   | 921 XX600  | Potest Audore      | 4.00                  | <b>3</b> 00       | 020                   | 900                                    | 0.00                         | 1                             | 6.00    | 0.18                      | DO'U         | <u> </u>              |
| Jay lake Sets  | 80000145   | Report Hudel       | C.BU                  | 000               | (Kr)                  | Œ,                                     | 明符                           |                               | 8       | B)'U                      | <b>18</b> 13 | <u> </u>              |
| oyameni  | 00001550   | Spha. (int         | 0,00                  | 000               | (C)                   | 300                                    | B)                           |                               | B       | 0.00                      | 33.3         | _                     |
| M section  | 0010250100 | Benant Minter      | 0.60                  | ψ¢                | 939<br>1              | άπο                                    | P20                          | 1                             | 8       | i,m                       | Cuff         | <u> </u>              |
| Satir  | #1022088   | Co (Beret          | 0.03                  | 000               | 315.00                | 999<br>9                               | 9.00                         | 1                             | 0.00    | 0.00                      | 303          | <u> </u>              |
| ersen fedrify  | 800230135  | Cher. Wedsmid      | 1,80                  | 30.               | 182.25                | 100.00                                 | 30.00                        |                               | 30.00   | 20,00                     | 939          | !                     |
| hyer Sessions  | 000230135  | Jere, Weberry      | 0.83                  | 300               |                       |  | 2.03                         |                               | 00.3    | 0.09                      | 30')         | <u> </u>              |
| <ul> <li>litch/Dest Paper Account</li> </ul>                               | 000220137  | Jeff.Corners       | 0.03                  |                   | 15.00                 | 30.00                                  | 3.                           |                               | 2.00    | 3.33                      | 80           |                       |
|  | 090737138  | Red. Necessin      | 0.00                  | 900               | 0.15                  | 970                                    | 2.00                         |                               | 0.00    | 0.00                      | 990          |                       |
| ica Cetote   | M3220125   | Mrra, Tesar        | 0.03                  | 900               | £8.75                 | 000                                    | 80°?                         |                               | 0.00    | 0.63                      | 337          |                       |
| y Details  | 000220140  | Par Design         | 0.00                  | 000               | 600                   | 90%                                    | 0.0                          |                               | 0.0     | C) (1)                    | 33.5         | _                     |
| umnery/Petails   | 11122200   | lanifett,          | 0.03                  | თი                | EC-53                 | 900                                    | 884                          |                               | C,M,    | 22.3                      | 33           | <u></u>               |
| (profit)   | 31000      | TomStations        | 3.06                  | 301               | 39,445                | WAIN                                   | 10°0.                        |                               | 10.08   | 190°C+?                   | 9977         | <u> </u>              |
| inger!   | 00023014.5 | Cire, Sec. 18      | Sir:                  | 301               | 182.10                | 00000                                  | 80.49                        |                               | 50,00   | 45.91                     | 9013         |                       |
| Change Herry   | 100230144  | Jerg-MgGaage       | 0.00                  | ant               | 633                   | 330                                    | 5.00                         |                               | C.03    | 100.0                     | 907          | _                     |
| bulikatien Messages  |            |                    |                       |                   |                       |  | 1.2                          |                               |         |                           |              |                       |
| dubon  |            |                    |                       |                   |                       |  |                              |                               |         |                           |              | Т                     |
| ex User  |            |                    |                       |                   |                       |  |                              |                               |         |                           |              |                       |
| \$ (3) ]348  |            |                    |                       |                   |                       |  |                              |                               |         |                           |              |                       |
| • Charge Password  |            |                    |                       |                   |                       |  |                              |                               |         |                           |              |                       |
| through by the same  |            |                    |                       |                   |                       |  |                              |                               |         |                           |              |                       |

FIG.54A

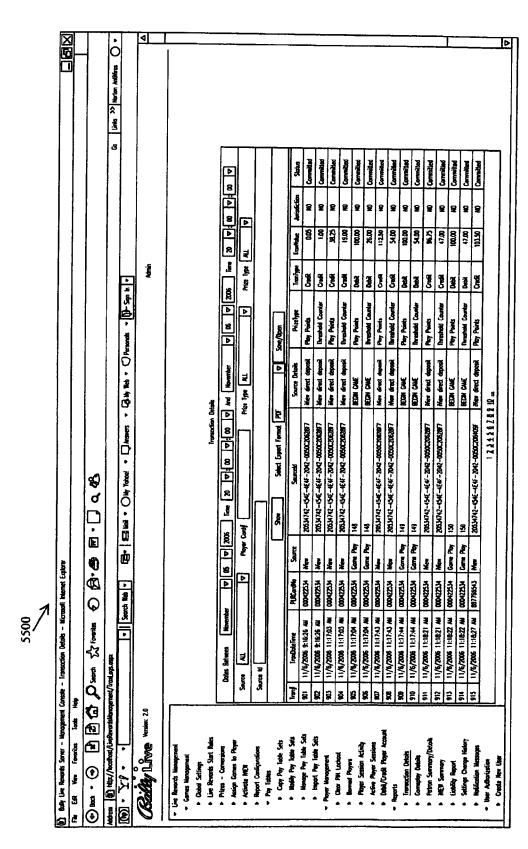


FIG.55

| SSO2  |      |               | △ ∞ △ m      | Δ           |       |                  | Jerisaritim Satus | 5 U. Committee                   |                                | 5 Mi Comercieer                   | 0 M Committee              | O M Committee     | 0 140 Committee     | 3 N Committee                     | D NC Contrained                | O NO Committee |                    | 5 M Committee               | 1 M. Committee             | 32   | D M. Committed |                                       |           |
|---|------|---------------|--------------|-------------|-------|------------------|-------------------|----------------------------------|--------------------------------|-----------------------------------|----------------------------|-------------------|---------------------|-----------------------------------|--------------------------------|----------------|--------------------|-----------------------------|----------------------------|--|----------------|---------------------------------------|-----------|
| SSO2  |      |               | æ            | 1           |       |                  | I <del></del>     |                                  |                                |                                   |                            |                   |                     |                                   |                                |                |                    |                             | -                          |  |                | 88. <del>-   *</del>                  |           |
| SSO2  |      |               | <u> </u>     |             |       | naj Ocen         |                   |                                  | Г                              |                                   |                            |                   |                     |                                   |                                |                | ž.                 |                             | nies                       |  |                | Pay Prints Credit                     |           |
| SSO2  |      | 404           | 204          |             |       |                  | Source Deluis     | Year Steel Oxyged                | ben drect deposit              | New describings                   | New direct disposit        | ROH GRE           | CON CIVE            | New Seed Opposit                  | Wen Grect orgosti              | 431 CW.        |                    | •                           | 160030                     | SC211 SAE  | 375 16 8       | New free separal                      | <u> </u>  |
| S502  |      | Ingresoften G | 00 A 00 A 00 | 4           |       | Seet Door fernat | Sarred            | 742 4545 4Left 2042-005002062577 | 745 454: 4F4: 2542-00502305327 | (4) -454; -4[4]: 294; -0050000000 | 42 454 444 2042 0000000357 |                   |                     | NO 4545 4547 2042 - 00500,2063577 | 142 454E 4E4F 2042-005020625F7 |                |                    | 19 454: 414: 2047-005020037 | 21 256 414 2842 (NEOCRESS) | о от не простава предеравального предераваней предераваней предераваней предераваней предераваней предераваней | 100 mg         | 20534742-1512-4147-2012-0050020164096 | 30 4 5 EV |
| 5502  |      |               | Δ            | Payer Cough |       | 35.              | 31/9X             |                                  |                                |                                   |                            | 一                 | Ŗ                   |                                   |                                | 1              |                    | :                           | $\overline{}$              |  |                |                                       |           |
|   | 2055 |               | Δ            | Δ           |       |                  | PLPC actio        |                                  |                                | $\neg$                            |                            |                   | 7                   |                                   | Ī                              |                | -                  | -                           | -                          | ī  | -              | SETTE SALE V                          |           |
| Source   Standard   Standard |      |               |              |             | N est |                  | TranDateTime      | ////2006 9.16.295 AN             | **, 6/3006 9:16:26 AM          |                                   | ** 105/000 11:1 EGG ##     | ## 1921 H 3002/9/ | 7.76/2006 HELTON AN |                                   |                                |                | " /6/2006 HELEALAN | 7.75/2006 H. 18-21 AM       | ## 153131 ¥00.7'9/         | # 228111 WC2/9/  |                | 7.78/2006 HHB207 AM                   |           |
| * S   |      |               |              | Ş           | ઝ     |                  | lengs &           | <u>:</u>                         | £                              | <b>:</b>                          | 폵                          |                   | £                   | 192                               | :2                             | 8              | 2                  | : <u>.</u> ,                | £ .                        | - 1  | 7.             | y:                                    |           |

## FIG.55A

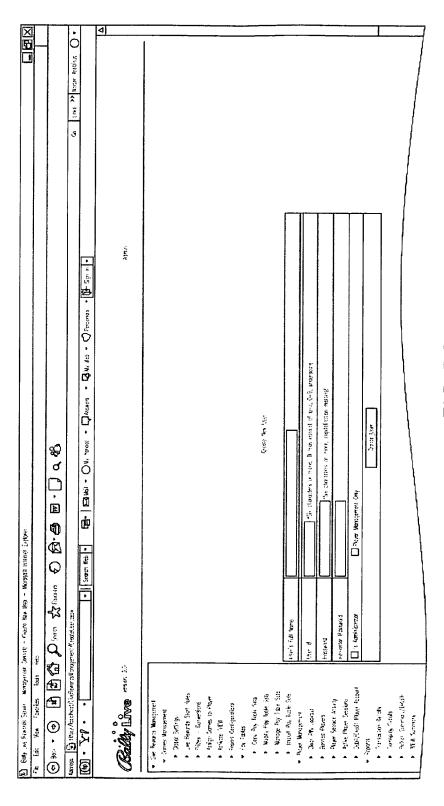
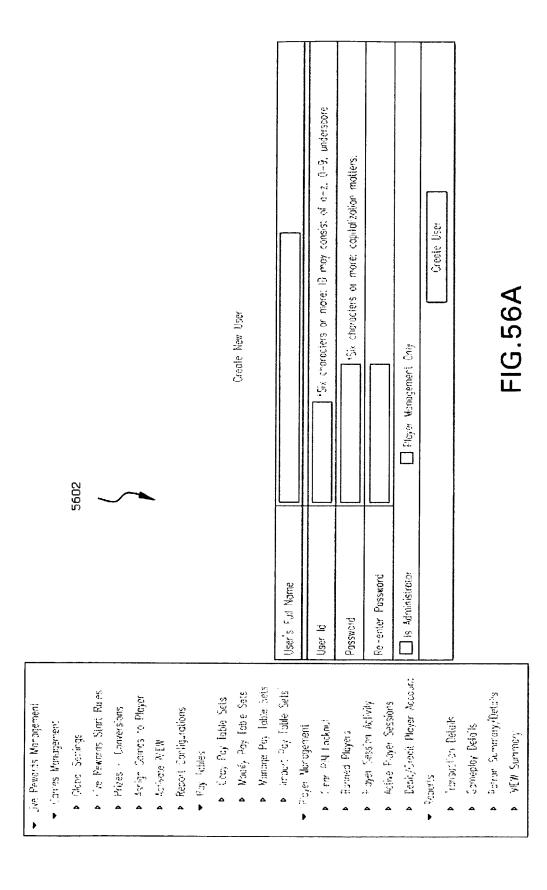
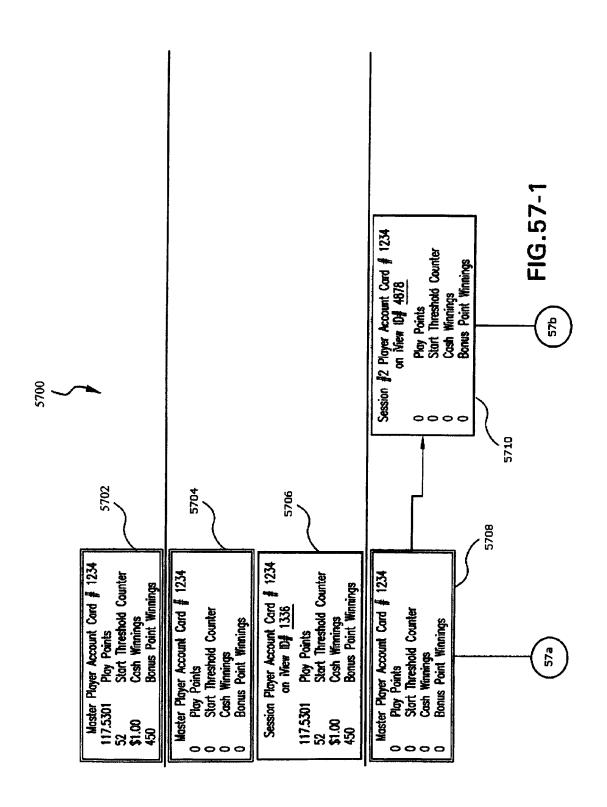
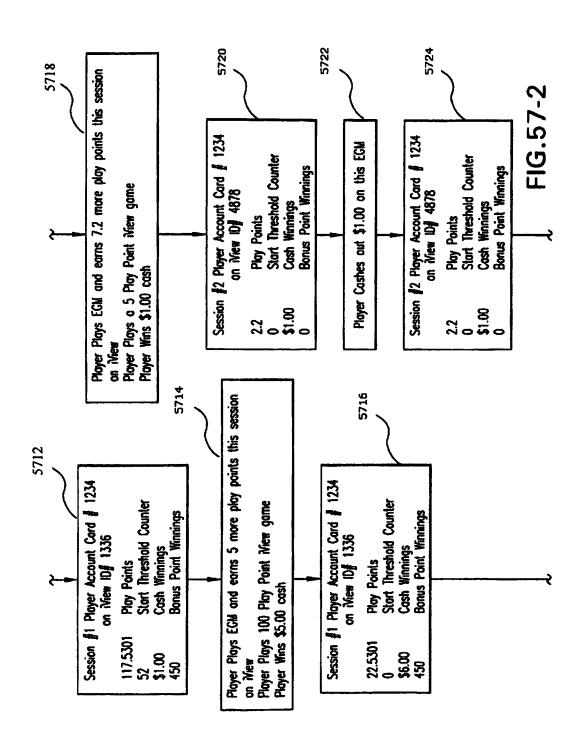


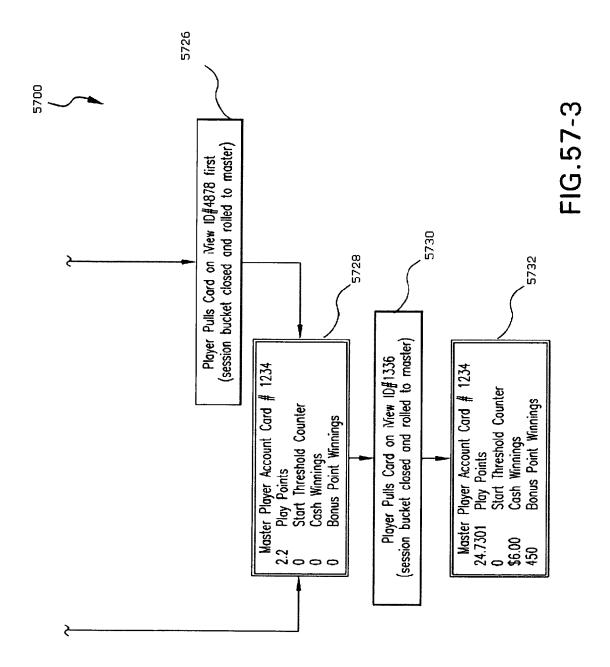
FIG.56













| FIG.58-1 | FIG.58-2 | FIG.58-3 |
|----------|----------|----------|
| FIG.58-4 | FIG.58-5 | FIG.58-6 |

FIG.58



|       | Live Rewards Session Accounts  |
|-------|--|
|       |  |
|       |  |
| STEP# | Event  |
|       |  |
|       | Starting Values  |
| 1     | Player #123 inserts 1st of his/her cards or logs in                        |
| 2     | Create Session(MEWID#176,Player#123) message sent to server                |
| 3     | Player Wagers \$20 over 80 base games and earns 5 play points and 80 STC's |
| 4     | DEPOSIT(5PP,80STC) message sent from iVIEW to Session account              |
| 5     | BECIN_CAME(10PP) message to Server from MEW                                |
| 6     | Server DEBITS session account by cost to play (10PP and All STC)           |
| 7     | iView Begins a 10 Play Point Game and all STC's                            |
| 8     | Player Wins \$10.00 on Wiew Poker game                                     |
| 9     | END_GAME_DEPOSIT(\$10) message sent from iVIEW to Session account          |
| 10    | Player Wagers \$4 over 16 base games and earns 1 play point and 16 STC's   |
| 11    | Player removes player card or logs out                                     |
| 12    | CloseSession(iVIEWID#176,Player#123) message sent to server                |
|       |  |
|       |  |
|       |  |
|       |  |
| 16    | Player #123 re-inserts card or logs into the same iVIEW                    |
| 17    | CreateSession(iVIEWID#176,Player#123) message sent ot server               |
| 18    | Player Wagers \$100 over 110 games and earns 25 play points and 110STC     |
|       |  |
|       |  |
|       |  |
|       | · ·· · · · · · · · · · · · · · · · · ·                                     |
|       |  |

FIG.58-1



|        | SEF                | RVER Sub-ACCO        | UNT                              |   | inag garana s                                |  |
|--------|--------------------|----------------------|----------------------------------|---|--|--|
|        | PlayPoints<br>(PP) | StartThrCtr<br>(STC) | Live Reward<br>Game Wins<br>Cash | Play Points<br>Earned since<br>last deposit<br>(PP) | PP Display<br>Value<br>includes<br>PP on LRS | StartThrCtr<br>Earned since<br>last deposit<br>(STC) |
| -      | ~                  | . "1 0               |                                  | **************************************              | ·  |  |
| -      |                    | ession #1 Opene      | <del></del>                      |   |  |  |
|        | 10                 | 50                   | \$0                              | 0   | 10   | 0  |
|        | 10                 | 50                   | \$0                              | 5   | 15   | 80   |
|        | 15                 | 130                  | \$0                              | 0   | 15   | 0  |
|        | 15                 | 130                  | , \$0                            | 0   | 15   | 0  |
|        | 5                  | 0                    | <b>\$</b> 0                      | 0   | . 5  | 0  |
|        | 5                  | 0                    | <b>\$</b> 0                      | 0   | 5  | 0  |
|        | 5                  | 0                    | \$0                              | 0   | 5  | 0  |
| $\Box$ | 5                  | 0                    | \$10                             | 0   | 5  | 0  |
|        | 5                  | 0                    | \$10                             | 1   | 6  | 16   |
|        | 6                  | 16                   | \$10                             | 0   | 6  | 0  |
|        | 0                  | 0                    | \$0                              | 0   | 0  | 0  |
|        | Sc                 | ession #1 Close      | d<br>·                           |   | t  |  |
|        |                    |                      |                                  |   | *  |  |
|        | Se                 | ssion #3 Opene       | d                                |   |  | harpen harrows and there was proved an amount        |
|        | 0                  | 0                    | \$0                              | 0   | 0  | 0  |
| 1      | ő                  | 0                    | <b>\$</b> 0                      | 25  | 25   | 110  |
|        | 0                  | 0                    | <b>\$</b> 0                      | 25  | 25   | 110  |
|        | 0                  | 0                    | <b>\$</b> 0                      | 25  | 25   | 110  |
|        | 0                  | 0                    | <b>\$</b> 0                      | 25  | 25   | 110  |
| $\Box$ | 0                  | 0                    | <b>\$</b> 0                      | 25  | 25   | 110  |

FIG.58-2



| iView Values                                   | promotiva in the constitution of the constitut | gan sam sam na mana na mana na sam na sa   |                  | SERVER ACCOUN<br>for<br>Player Card#123  |  |
|--|--|--|------------------|--|--|
| STC Display<br>Value<br>Includes<br>STC on LRS | \$\$ Temp<br>On<br>iView   | \$\$ Display<br>Value  | PlayPoints<br>PP | StartThrCtr<br>(STC)   | Live Reward<br>Game Wins<br>Cash   |
|  |  |  | 10               | 50   | _  |
|  |  |  | 10               | 50   | _  |
| 50   | <b>\$</b> 0  | \$0  |                  |  | -  |
| 130  | <b>\$</b> 0  | <b>\$</b> 0  | -                |  | _  |
| 130  | \$0  | <b>\$</b> 0  | -                | We .   | and the state of t |
| 130  | <b>\$</b> 0  | <b>\$</b> 0  | -                | and the state of t |  |
| 0  | <b>\$</b> 0  | <b>\$</b> 0  | -                |  | -  |
| 0  | <b>\$</b> 0  | <b>\$</b> 0  | -                | ***  |  |
| 0  | <b>\$</b> 10   | \$10   | _                |  |  |
| 0  | \$0  | \$10   | -                | -  | -  |
| 16   | <b>\$</b> 0  | \$10   | - i              | _  | -  |
| 16   | <b>\$</b> 0  | \$10   | _                | and the state of t | -  |
| 0  | <b>\$</b> 0  | <b>\$</b> 0  | 6                | 16   | \$10   |
|  |  |  | 6                | 16   | <b>\$</b> 10   |
|  |  |  | -                | ******   | ***  |
|  |  |  | -                |  | -  |
|  |  |  | _                | -  | -  |
|  |  | And the second s | -                | -  |  |
| 0  | <b>\$</b> 0  | <b>\$</b> 0  | -                | -  |  |
| 110  | <b>\$</b> 0  | \$0  | _ !              | _  | -  |
| 110  | <b>\$</b> 0  | \$0  | -                | _  |  |
| 110  | <b>\$</b> 0  | <b>\$</b> 0  | _                | -  |  |
| 110  | <b>\$</b> 0  | <b>\$</b> 0  | _                | _  | _  |
| 110  | <b>\$</b> 0  | <b>\$</b> 0  | _                | -  | · ·- · · · · · · · · · · · · · · · · ·   |

FIG.58-3



| 28     | DEPOSIT(25PP,110STC) message sent from MEW to Session account                        |
|--------|--|
| 29     | BEGIN_GAME(5PP) message to Server from iVIEW   |
| 30     | Server DEBITS session account by cost to play (5PP and all STC)                      |
| 31     | iVIEW Begins a 5 Play Point Tournament Came  |
| 32     | END_GAME sent from IVIEW to LRS  |
| 33     | LRS determines player wins tournament (\$30.00)                                      |
| 34     | Player removes player card or logs out   |
| 35     | CloseSession(iVIEWID#176,Player#123) message sent to server                          |
|        |  |
| Notes: |  |
| 1      | At BEGIN_GAME:StartThrCtr—always set to zero in a session account after a successfu  |
| 2      | At BEGIN_GAME:Play Points-are deducted in session account by the cost to play this   |
| 3      | Upon Player Tracking Card insertion a session account is created and all values from |
| 4      | The First card in reserves the Master Player account values into Session Account for |
| 5      | A Second Card inserted of the same card number immediately following the First       |
| 6      | Each player plays against his/her own session account. This way they can't spend     |
| 7      | When a player pulls his cord or logs out the session is closed and the session       |
| 8      | Any other player account values will be treated the same way. Including Player       |
| 9      | There will be no sub-accounts if all cards removed                                   |
| 10     | Note that is the case of the player playing an LRS tournament the cash winnings      |
|        | When player removes their card all PP and STC are transferred to the player          |
| 11     | 1  |

FIG.58-4



|  |            | 1                  |                  |                      |               |   |
|--|------------|--------------------|------------------|----------------------|---------------|---|
|  | 0          | 0                  | <b>\$</b> 0      | 25                   | 25            | 110                                       |
|  | 0          | 0                  | <b>\$</b> 0      | 25                   | 25            | 110                                       |
|  | 0          | 0                  | <b>\$</b> 0      | 25                   | 25            | 110                                       |
|  | 0          | 0                  | \$0              | 25                   | 25            | 110                                       |
|  | 0          | 0                  | <b>\$</b> 0      | 25                   | 25            | 110                                       |
|  | 25         | 110                | <b>\$</b> 0      | 0                    | 25            | 0   |
|  | 25         | 110                | <b>\$</b> 0      | 0                    | 25            | 0   |
|  | 20         | 0                  | <b>\$</b> 0      | 0                    | 20            | 0   |
|  | 20         | 0                  | <b>\$</b> 0      | 0                    | 20            | 0   |
|  | 20         | 0                  | <b>\$</b> 0      | 0                    | 20            | 0   |
|  | 20         | 0                  | \$30             | 0                    | 20            | 0   |
|  | 20         | 0                  | \$30             | 0                    | 20            | 0   |
| Military Company and Company a | 0          | 0                  | <b>\$</b> 0      | 0                    | 0             | 0   |
| -  | Se         | ession #3 Closed   | <u> </u>         |                      |               |   |
| <u>l</u><br>begingame  | Ironsoctio | <u>.</u>           |                  |                      |               |   |
|  |            | selected pay to    | <br>1hla         |                      |               |   |
|  |            |                    | into the session | account              |               |   |
| this iVIEW   |            |                    | 1110 (10 303001  | decount              |               | AND THE PERSON NAMED OF PERSONS ASSESSED. |
|  |            | os for his session | on account       |                      |               |   |
|  |            | values or winni    |                  |                      |               |   |
|  |            |                    | the Master acc   | l                    |               |   |
| Club Points  |            |                    |                  | nly in player's LRS  | account until | successful                                |
|  |            | ore closing the    |                  | ing in player a cito | - Count ditti |   |
| minimum S  |            |                    |                  |                      |               | · · · · · · · · · · · · · · · · · · ·     |
|  |            |                    |                  |                      |               |   |
|  |            |                    |                  |                      |               |   |

FIG.58-5



| 110  | <b>\$</b> 0 | \$0  | -  | -  | _  |
|--|-------------|--|----|--|--|
| 110  | <b>\$</b> 0 | <b>\$</b> 0  | -  | -  | _  |
| 110  | \$0         | <b>\$</b> 0  |    | -  | _  |
| 110  | <b>\$</b> 0 | \$0  | -  | The second secon | The second secon |
| 110  | \$0         | <b>\$</b> 0  | 10 | _  | \$9  |
| 110  | <b>\$</b> 0 | <b>\$</b> 0  | 10 | -  | <b>\$</b> 9  |
| 110  | <b>\$</b> 0 | <b>\$</b> 0  | 10 | -  | \$9  |
| 0  | \$0         | <b>\$</b> 0  | 10 |  | \$9  |
| 0  | <b>\$</b> 0 | \$0  | 10 |  | <b>\$</b> 9  |
| 0  | \$0         | <b>\$</b> 0  | 10 | -  | \$9  |
| 0  | \$0         | \$30   | 10 | -  | <b>\$</b> 9  |
| 0  | <b>\$</b> 0 | \$30   | 10 | _  | <b>\$</b> 9  |
| 0  | \$0         | \$0  | 30 | -  | \$39   |
|  |             |  |    |  |  |
|  |             |  |    |  |  |
| - 10 Marco - 10 1 App 44 1 1 App 4 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |             |  |    |  | -  |
| · · · · · · · · · · · · · · · · · · ·                                    |             |  |    |  |  |
|  |             | The second residence of the second second  |    |  |  |
|  |             | · · · · · · · · · · · · · · · · · · ·  |    |  | anner i de era e se sanayan, sudianakir  |
|  |             | PEREN PROGRAMA ANGERSANDES ESCURENÇA (A STANCE DE SENTE D |    |  | to the state of the state  |
|  |             | ······································   |    |  | · · · · · · · · · · · · · · · · · · ·  |
|  |             | I charles assessment of adjusting and later grading and any or any or any  |    |  |  |
| transfer to the bas  | se gome     |  |    | * * *  |  |
|  |             | the state of the s | †  |  |  |
|  |             |  |    |  |  |
|  |             |  | 1  | i  |  |

FIG.58-6

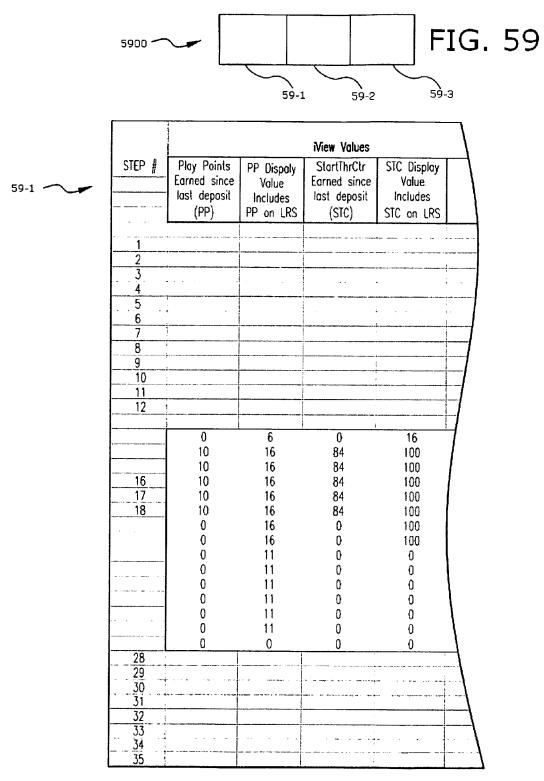


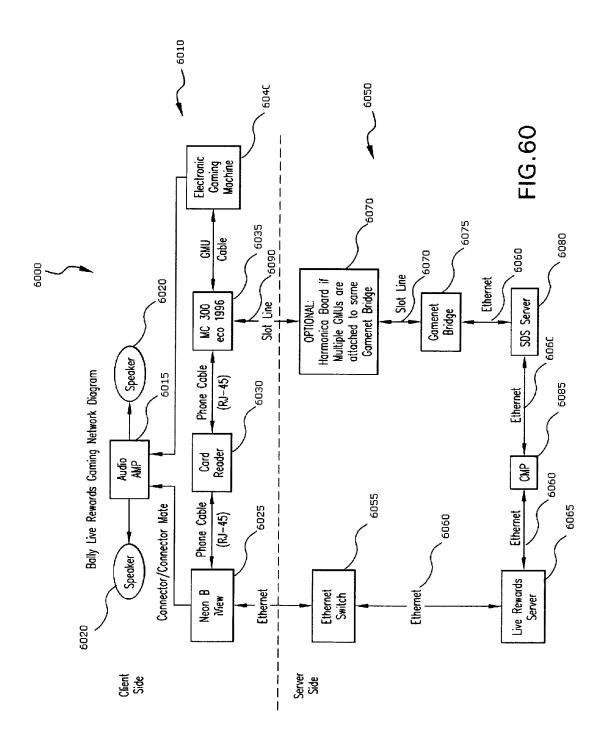
FIG.59-1

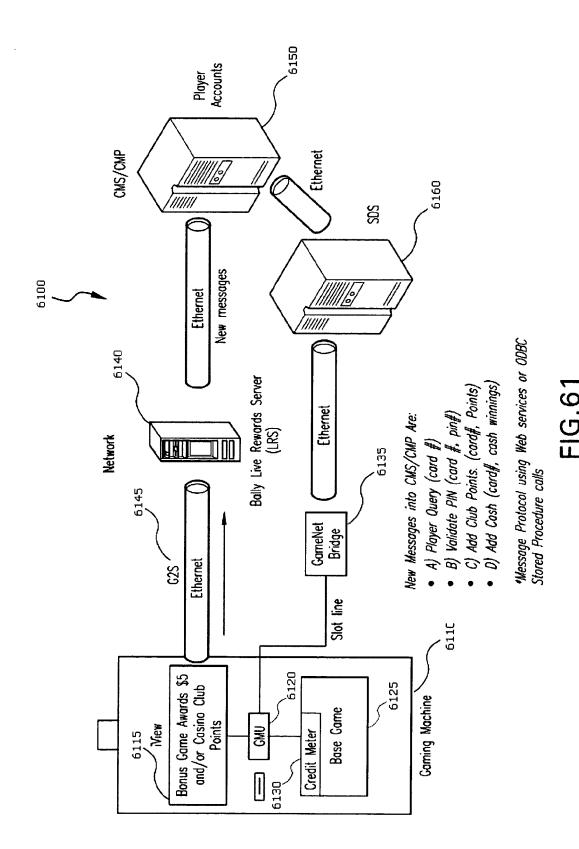
|                |                 |                     | SER        | VER Sub-ACCC<br>IView ID 473   | TAUC                      |  |
|----------------|-----------------|---------------------|------------|--|---------------------------|--|
| 7              |                 |                     |            |  |                           | STEP #   |
| /              | \$\$ TEMP<br>On | <b>\$\$</b> Display | PlayPoints | StartThrCtr  | Live Reword<br>Game Wins  |  |
|                | iVie₩           | Value               | (PP)       | (STC)  | Cosh                      |  |
| 59-2           |                 |                     |            |  |                           |  |
|                |                 |                     |            |  |                           |  |
|                |                 |                     |            |  |                           |  |
| j              |                 |                     |            |  |                           |  |
| ŀ              |                 |                     |            |  |                           |  |
|                |                 |                     |            |  |                           |  |
| <u> </u>       |                 |                     |            |  |                           | <del></del>  |
|                |                 |                     |            |  |                           |  |
| <u> </u>       |                 |                     |            | · Francisco de la constitución d |                           |  |
| COMPANIES. San |                 |                     | Sess       | ion #2 Opened  | }                         | 13   |
|                | \$0             | \$10                | 6          | 16   | \$10                      | 14   |
| 1              | \$0<br>\$0      | \$10<br>\$10        | 6<br>6     | 16<br>16   | \$10<br>\$10              | 15   |
| 1              | \$0<br>\$0      | \$10                | 6          | 16   | \$10<br>\$10              |  |
|                | \$0             | \$10                | 6          | 16   | \$10                      | The state of the s |
|                | \$0<br>\$0      | \$10<br>\$10        | 6<br>16    | 16<br>100  | \$10<br>\$10              | 19   |
|                | \$0             | \$10                | 16         | 100  | \$10                      | 20   |
|                | \$0<br>\$0      | \$10                | 11         | 0  | \$10                      | 21   |
|                | 50<br>\$0       | \$10<br>\$10        | 11<br>11   | 0<br>0   | \$10<br>\$10              | 22<br>23   |
| 1              | \$0             | \$10                | 11         | 0  | S10                       | 24   |
| 1              | \$0<br>\$0      | \$9<br>\$9          | 11<br>11   | 0<br>0   | <b>\$9</b><br><b>\$</b> 9 | 25<br>26   |
| 1              | \$0<br>\$0      | S0                  | 0          | 0  | <b>\$</b> 0               | 27   |
|                |                 |                     |            |  |                           |  |
| \              |                 |                     |            |  |                           |  |
| _              |                 |                     |            | -  |                           |  |
| \-             |                 |                     |            |  |                           |  |
| /              | <u> </u>        |                     |            |  |                           |  |
|                |                 |                     |            |  |                           |  |

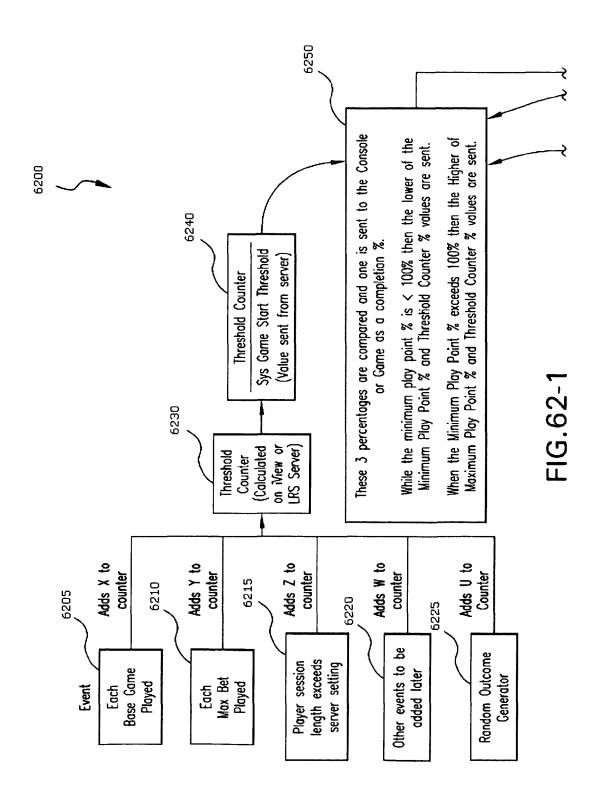
FIG.59-2

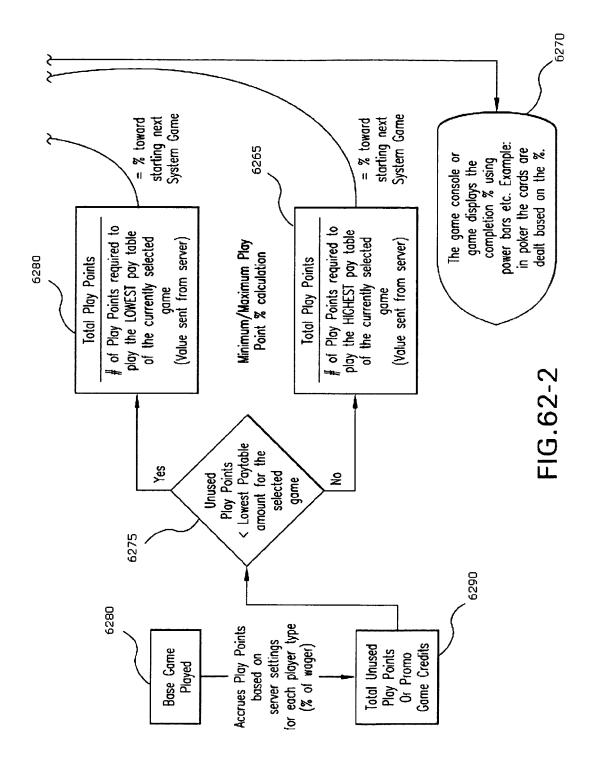
| 1  |  |
|--|--|
|  |  |
| 1  |  |
|  | <u>Event</u>   |
|  |  |
|  |  |
|  |  |
| 59-3   |  |
| 39-3   | The state of the s |
| ***************************************  |  |
|  |  |
|  |  |
|  |  |
| Major has state out to delicate the control of the  |  |
|  |  |
| AND MALL OF THE PARTY OF THE PA |  |
|  |  |
|  | Player #123 inserts 2nd of his/her cards or logs in  |
| ļ  | Create Session (NEWID#473,Player#123) message sent to server Player Wagers \$40 over 84 base games   |
| er om mer i vila   | and earns 10 play points and 84 STCs on IVIEW  |
|  | and some to play points and or slot on them  |
|  |  |
| M. S. SANLANDA AND C. SERVE AND CONTRACTOR   |  |
| A reference and the second of  | DEPOSIT (10PP,103STC) message sent from MEW to Session account BEGIN_CAME (5PP) message to Server from IVIEW   |
| w u quinq init   | Server DEBITS session account by cost to play (5PP and All STC)  |
|  | iVIEW Begins a 5 Play Point Bingo game   |
| The second secon | Player loses the iMEW game   |
| \  | END_GAME_DEPOSIT(\$0) message sent from iVIEW to Session account   |
|  | Player Cashes out \$1 from session account to base game Player removes player card or logs out   |
|  | Close Session (NEWID#473,Player#23) message sent to server   |
|  |  |
| \(\begin{array}{cccccccccccccccccccccccccccccccccccc   |  |
| \  |  |
| \(\sigma_{\text{\tinit}}\\ \text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tinit}\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\tin}\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\texi}\tint{\text{\tiin}\tint{\tiin}\tint{\tiin}\tint{\text{\tin}\tint{\text{\texi}\ |  |
| \  | · · · · · · · · · · · · · · · · · · ·  |
| \  |  |
|  |  |

FIG.59-3









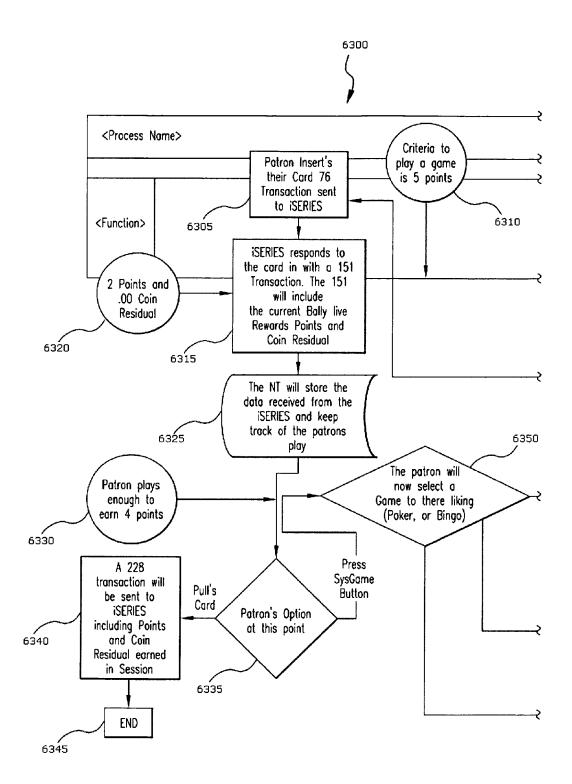
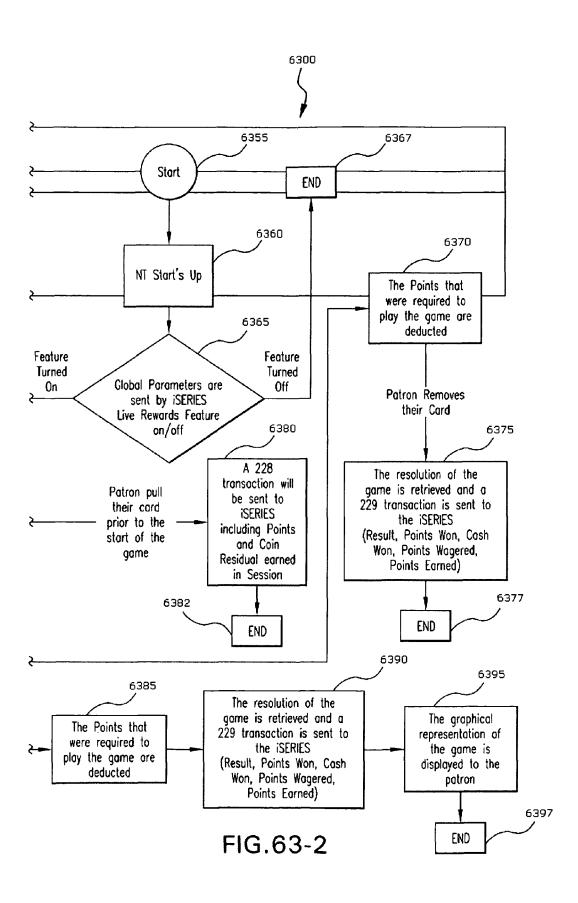
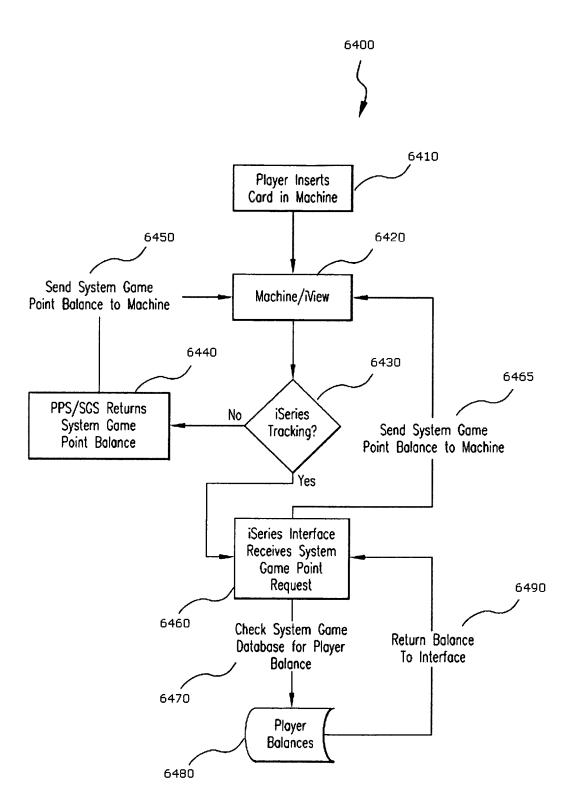
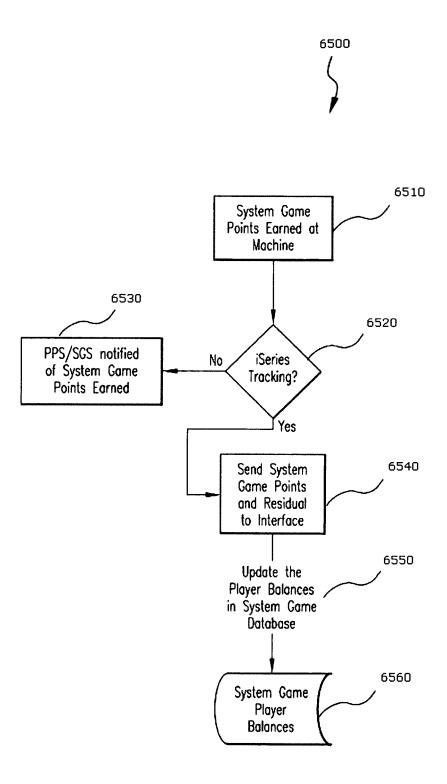


FIG.63-1





**FIG.64** 



**FIG.65** 

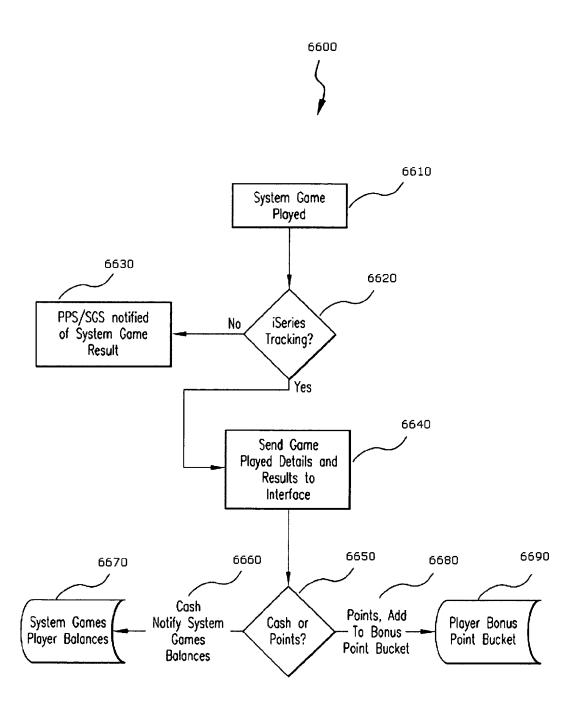


FIG.66



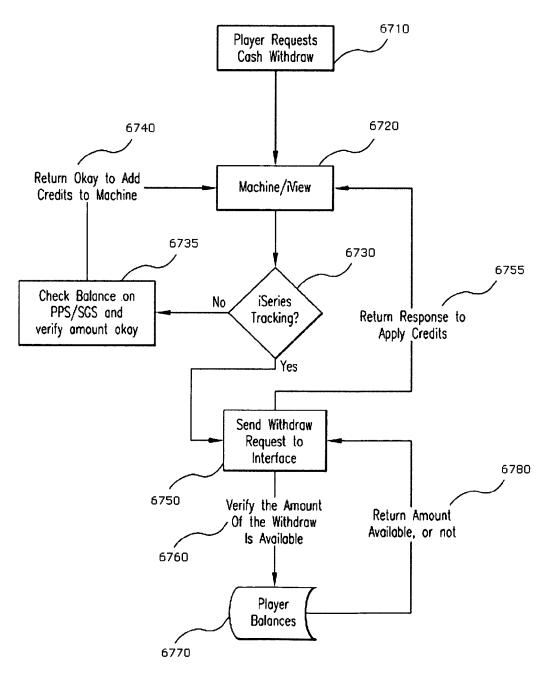


FIG.67

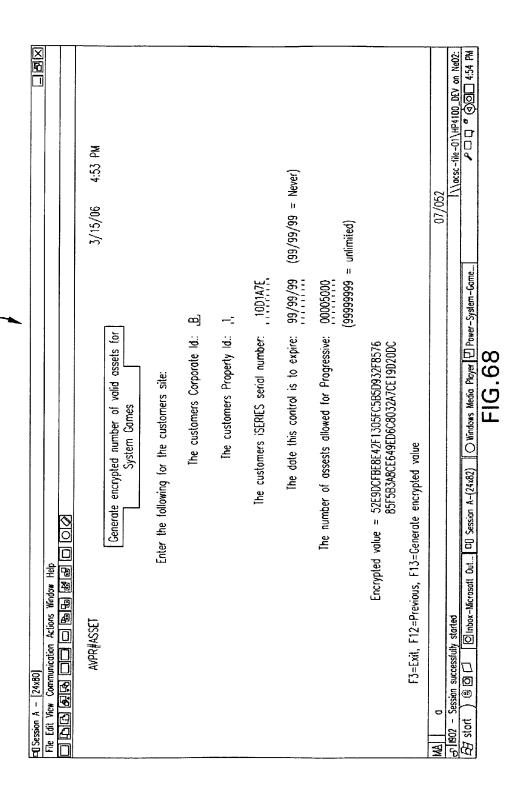


FIG.69 \\ccsc-file-01\HP4100\_DEV on NeQZ: 22- Club Access
23- Internal Audit Menu
24- Consolidated Cage Menu
24- Consolidated Cage Menu
30- Year End Gaming History Request Menu
31- Casino Purge Menu
40- Remote Rep Menu
50- SMS System Control Menu
51- Valet Control Menu
52- Slot Supervisor Menu
53- Slot Supervisor Menu
54- Surveillance Menu
55- Slot Attendant Station
56- SMS Marketing Menu
60- Hotel System Main Menu
61- Bus Marketing System
96- Work with Submitted Jobs
97- Work with Spooled Files
99- Sign Off 5/11/06 10:53 AM Rel 3.1.8 | © Inbox-Nicrosofi Out... | 中 Session A-(24,482) | O http://tuner1.dc1.so...| 日 Power-System-Game... 23/022 Password Bally Technologies ACSC Main Menu ----12- Sales & Marketing 13- Table Games Analysis Menu 15— Casino Management Menu 16— Slot Accounting Menu 18- Simulcast/Keno Menu 19- Telemarketing Rep Menu 16- Slot Accounting Menu 17- Potron Analysis Menu 20- Mail Processing Menu 03- ACSC Service Menu Patron Management 06- Front Window 07- Fill Bank 08- Main Bank 09- Casino Accounting 10- Patron Managemen 11- Collections Menu Casino Accounting File Edit View Communication Actions Window Help 05- Marker Bank Soft Count 14- CIC Menu F5=Clear Auth Option 50 3 1902 - Session successfully started (A) (D) (D) J Session A - [24x80] By start

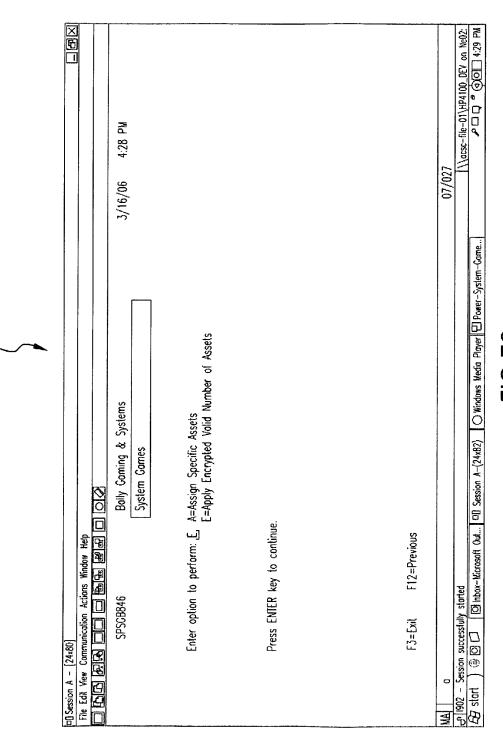


FIG. 70

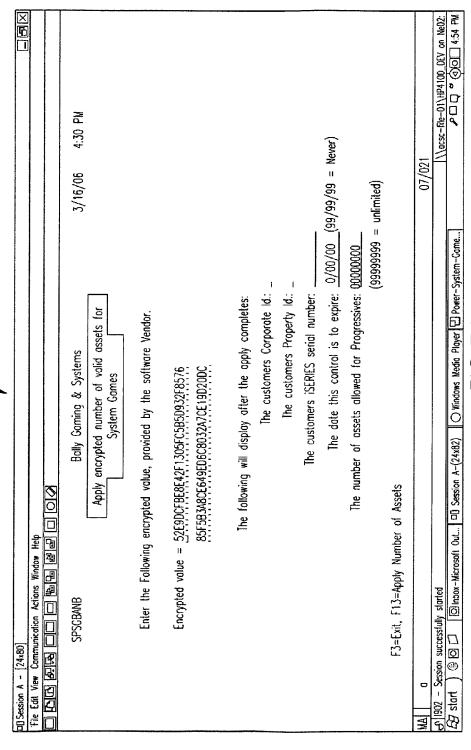


FIG.71

| DI Session A – [24x80]   |         |                                    |
|--|---------|------------------------------------|
| File Edit Wew Communication Actions Window Help  |         |                                    |
| _SPSGBANB Advanced Casino Systems Corp.  Maintain assets allowed to be part of System Games  | 3/15/06 | 5:08 PM                            |
| You are about to maintain the assets (skot machines) that are allowed to be part of the System Games  The assets listed are ALL of the assets allowed to be assigned to the System Games |         |                                    |
| Your current assets imit is: $5000$ and expires: $12/31/69$ Your current assets assigned is: $0$   |         |                                    |
| If your current limit is 99999999, you have unlimited assets, and do not need to assign specific assets via this function.   |         |                                    |
| If your current assets assigned is greater or equal to the current limit, you can not added any more assets.   |         |                                    |
| Press the ENTER key to continue.   |         |                                    |
| F12=Previous   |         |                                    |
| ο   <del> </del> <del> </del> <del> </del>   | 100/10  |                                    |
| ession successful  | \\acs   | \\acsc-fite-01\HP4100_DEV on Ne02: |
| 母 start ) 魯岡口 (回nbox-Nicrosoft Out) all Session A-(24x82) (O Windows Nedia Player) 日 Power-System-Game   |         | Md 60:5 🗆 🔿 🖒 🗀 🗸                  |

FIG.72

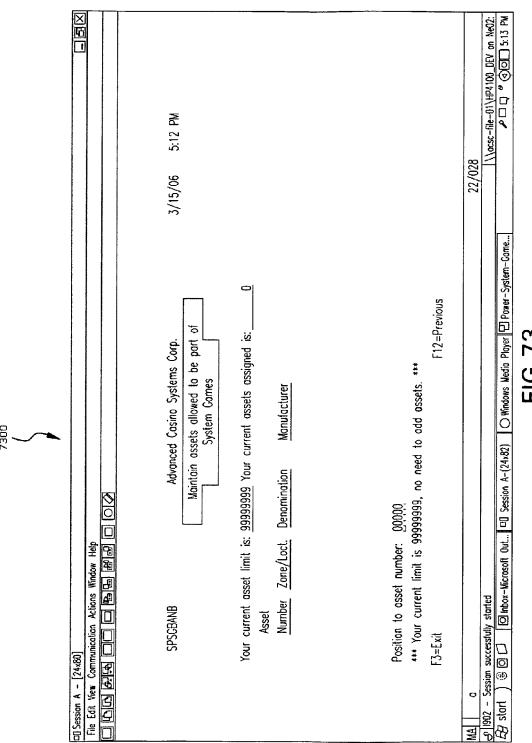


FIG. /3

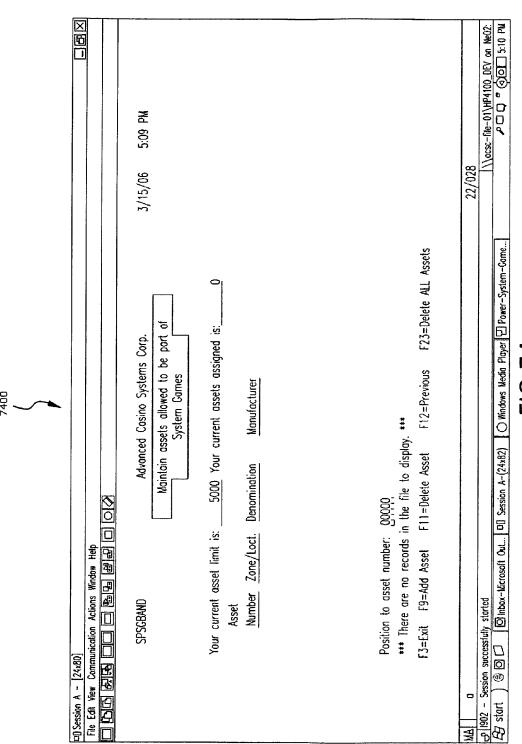


FIG.74

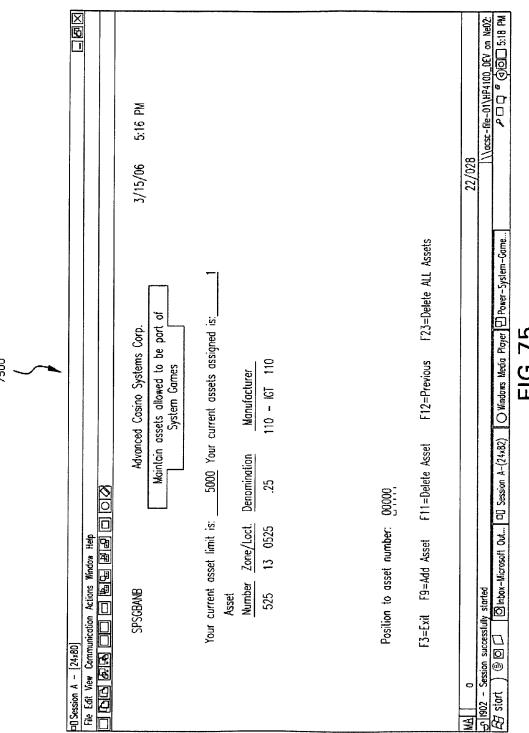


FIG.75

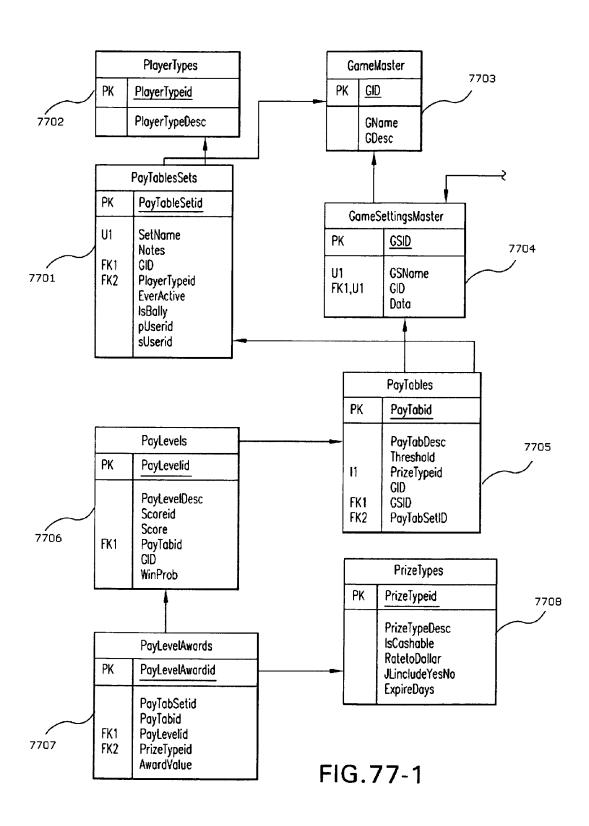
| oD Session A – [24x80]   |                                    |
|--|------------------------------------|
| File Edit View Communication Actions Window Help   |                                    |
| 그 한 10 10 10 10 10 10 10 10 10 10 10 10 10   |                                    |
| SPSGB001 System Games Global Setup   | 5/24/06                            |
| Corp 10: B Edit Record 14:1  | 14:10.25                           |
| N<br>12345678 1235 Al  |                                    |
| PIN Required   |                                    |
| Dollars Played to Earn Point   |                                    |
| _, 8   |                                    |
| J 31 ·   |                                    |
| Non-Carded Player Winning Type <u>C</u> (C-Cashable, N-Non-Cashable)<br>Cord Levels Supported <u>Y</u> -Low <u>Y</u> -Mid <u>Y</u> -High |                                    |
| No Activity Days to Purge  |                                    |
| F12=Cancel ENTER=process   |                                    |
| MA d 05/014  |                                    |
| ⊖\1802 - Session successfully started  | \\acsc-file-01\HP4100_0EV on Ne02: |

FIG. 76



| FIG.77-1 | FIG.77-2 | FIG.77-3 |
|----------|----------|----------|
| FIG.77-4 | FIG.77-5 | FIG.77-6 |

FIG.77



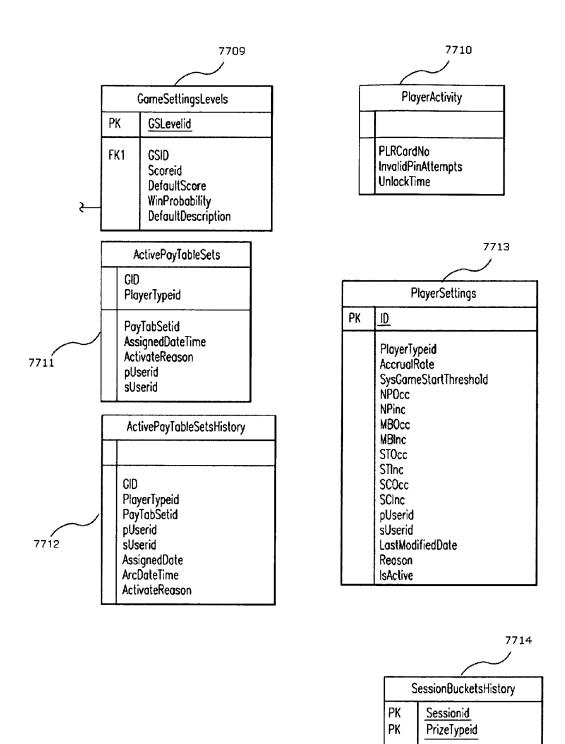
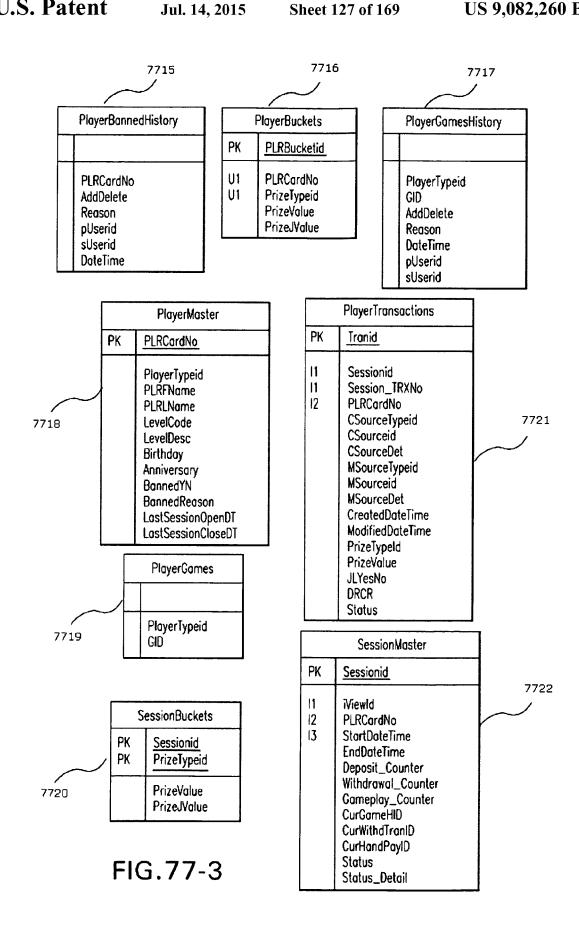
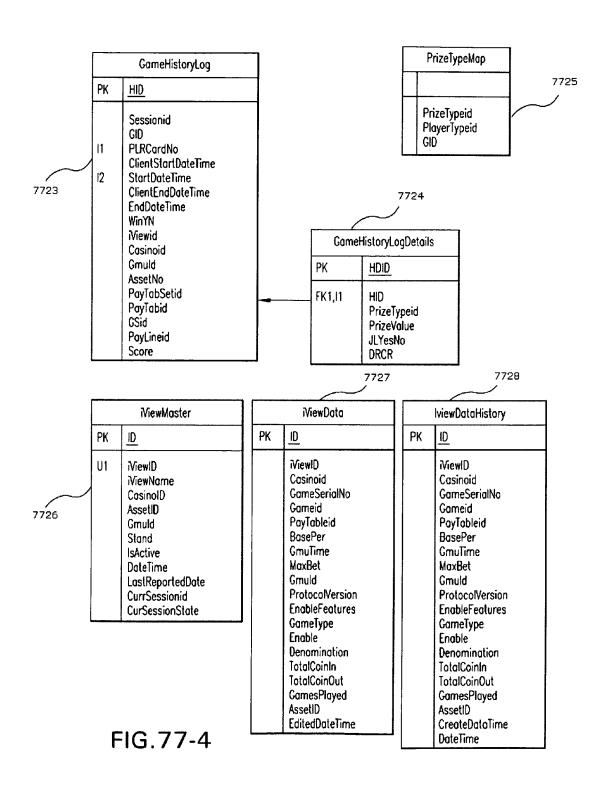


FIG.77-2

OpenPrizeValue OpenPrizeJValue ClosePrizeValue

ClosePrizeJValue





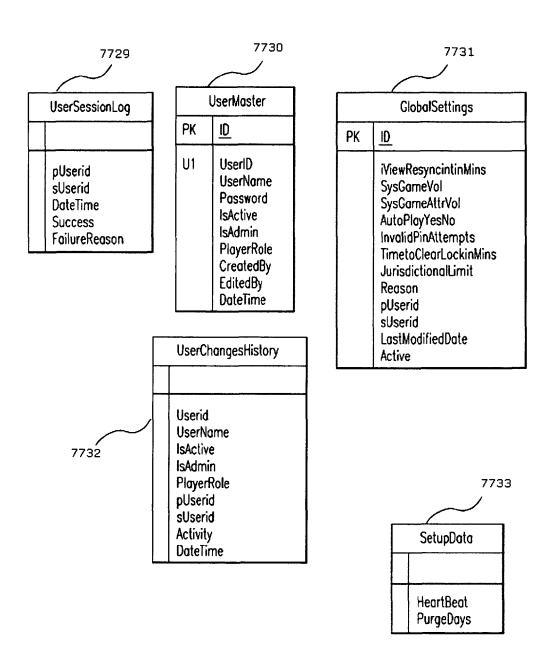
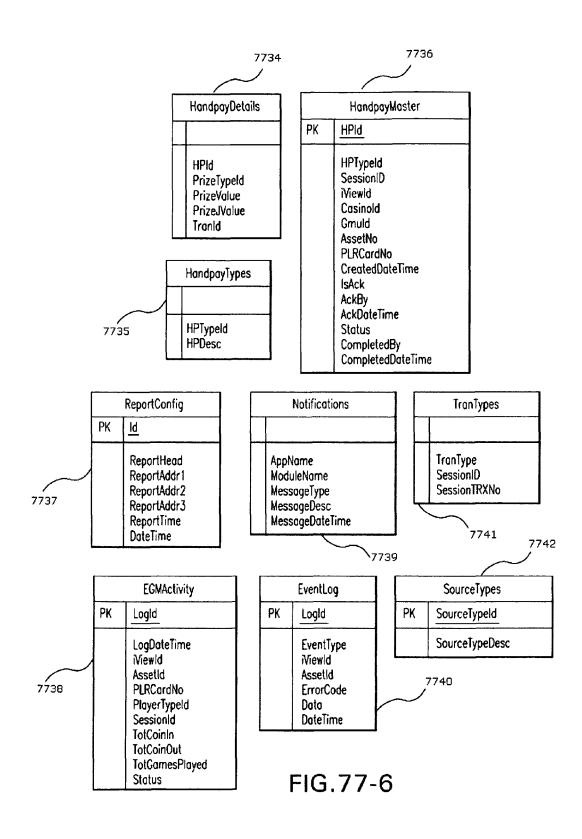
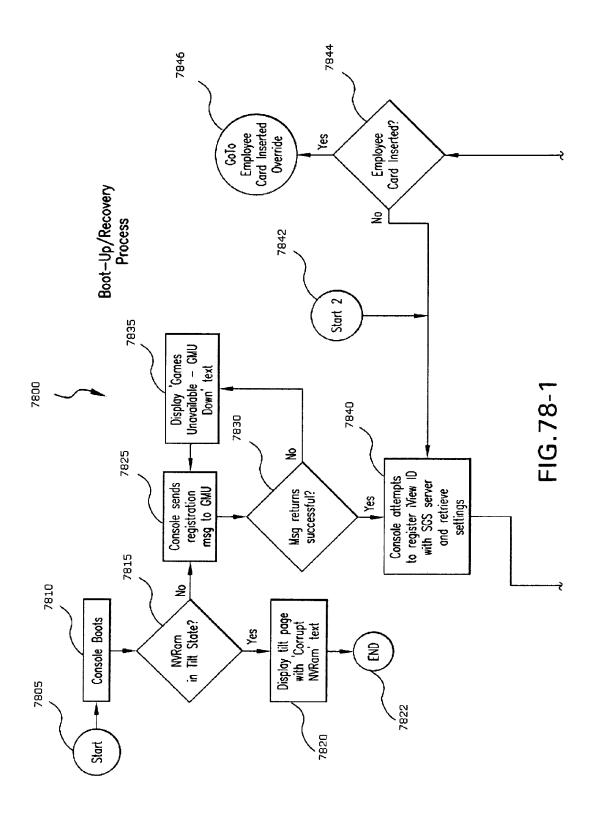
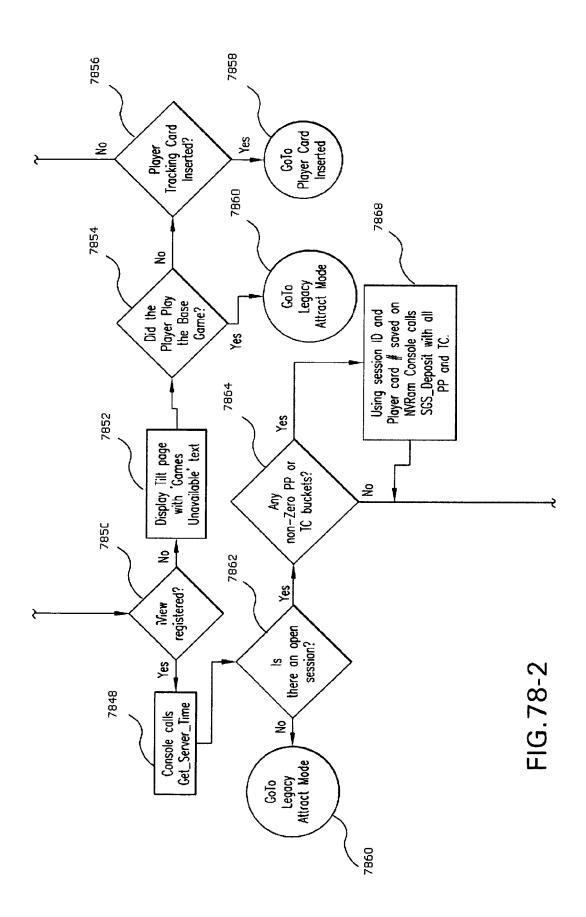
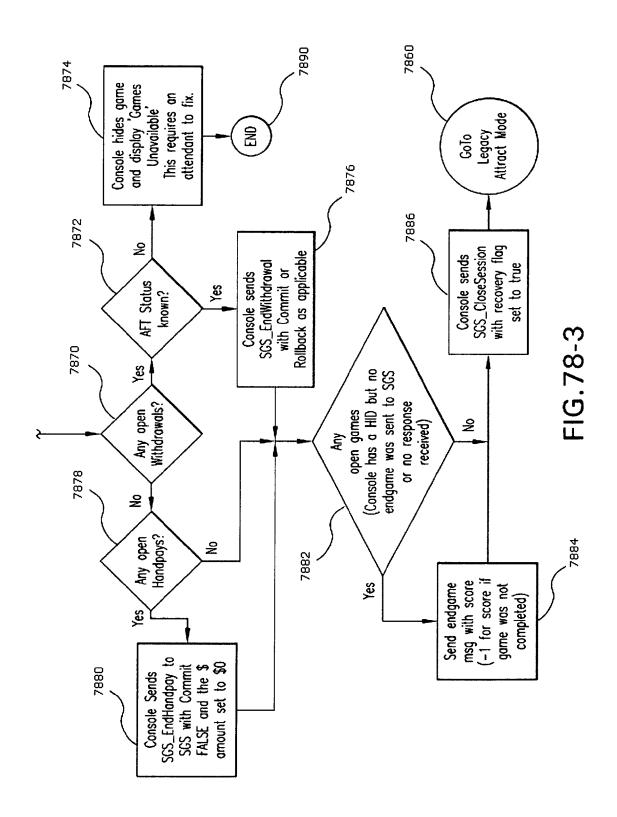


FIG.77-5









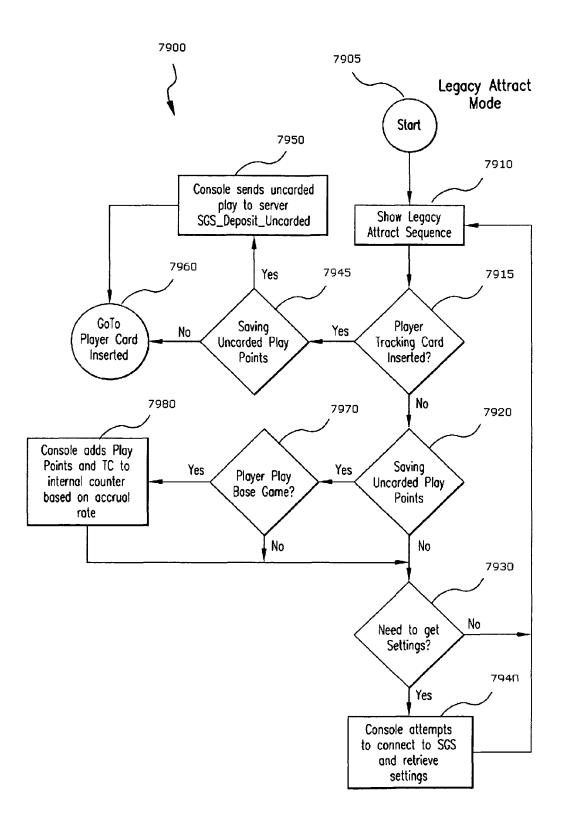
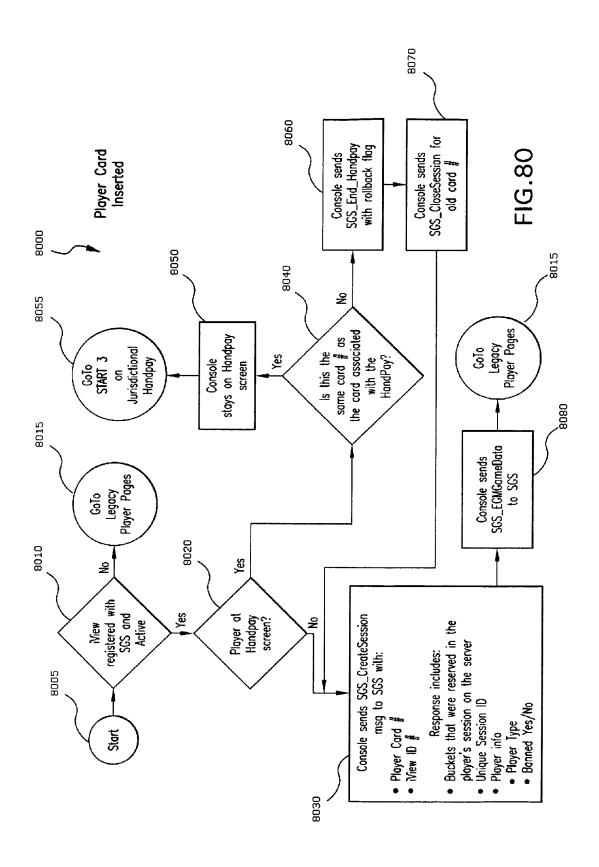
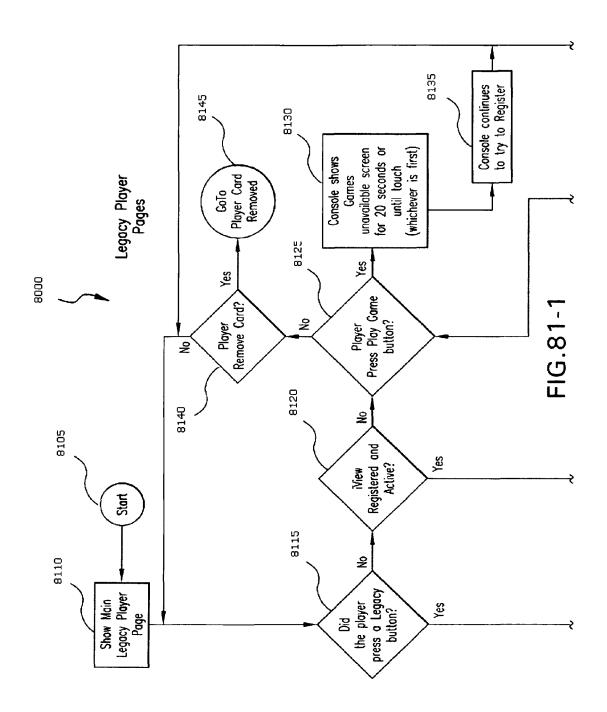
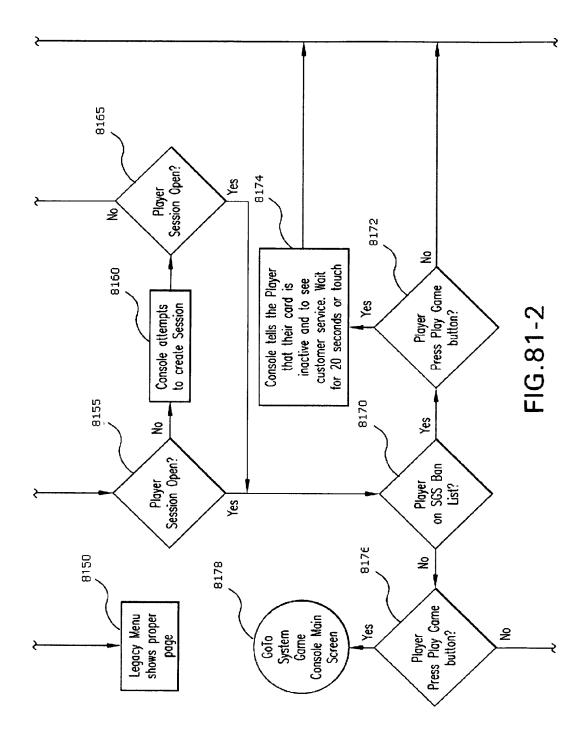


FIG.79







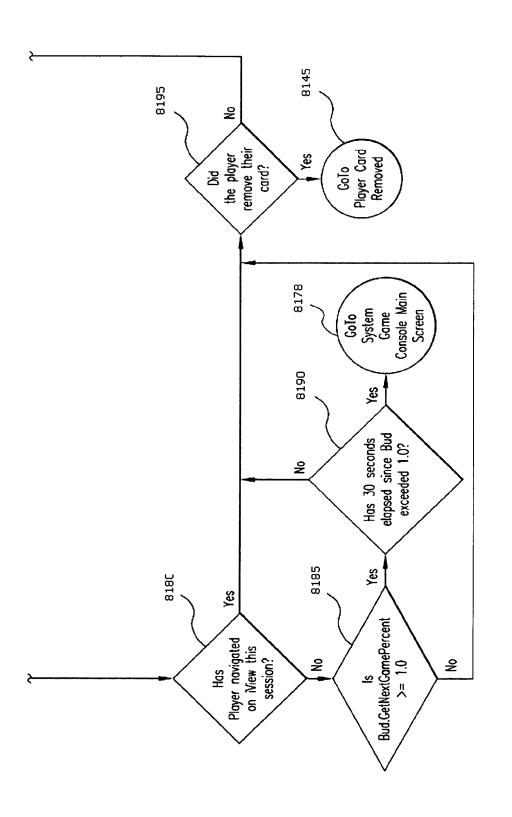
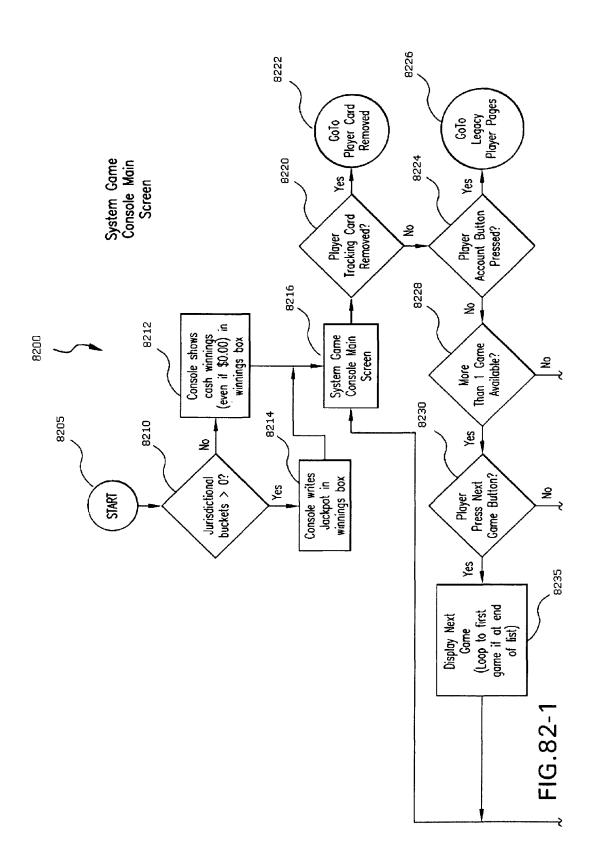
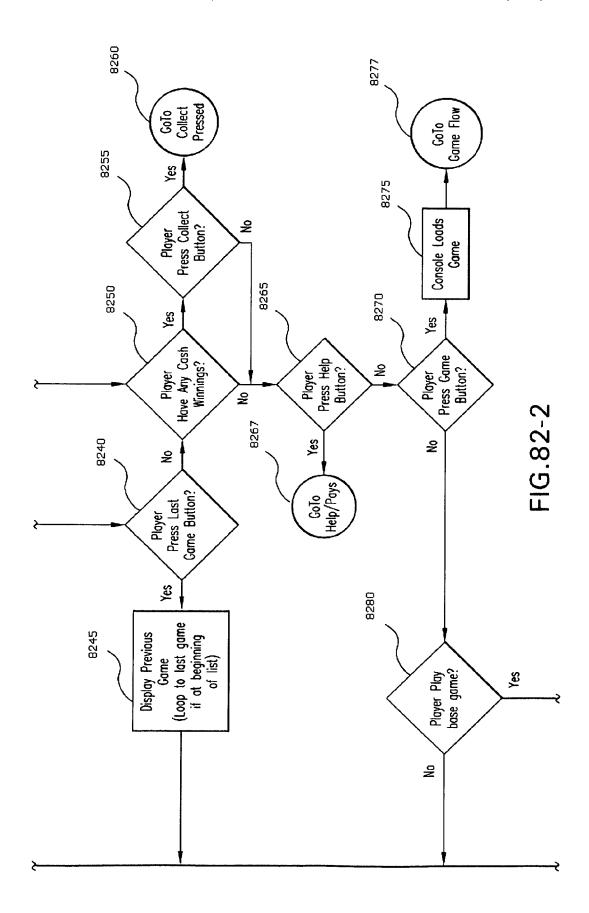


FIG.81-3





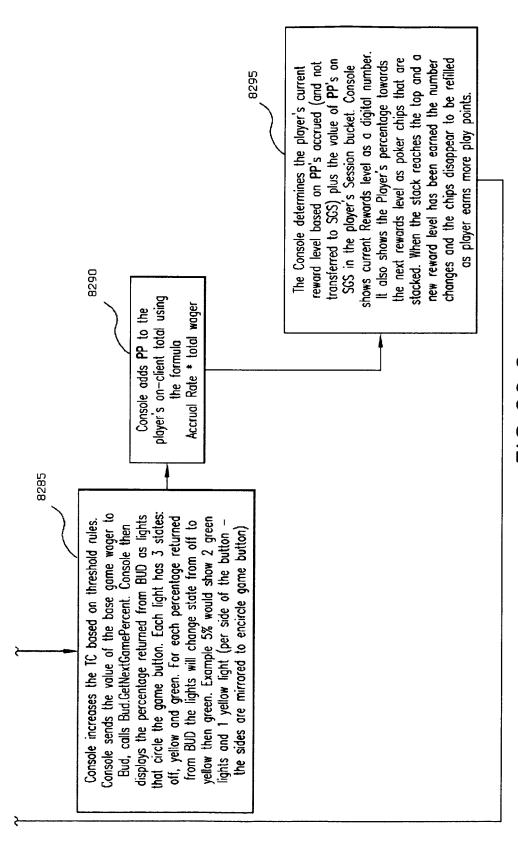
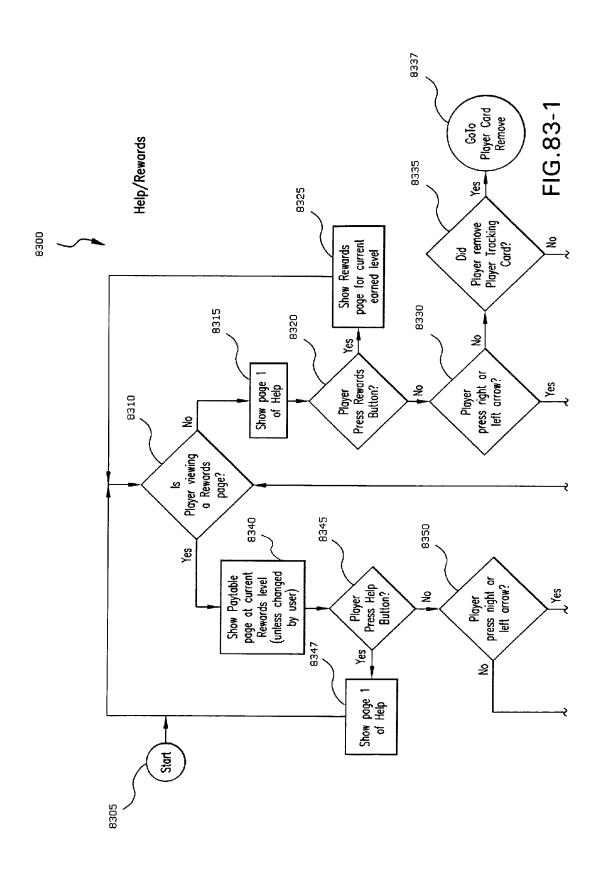
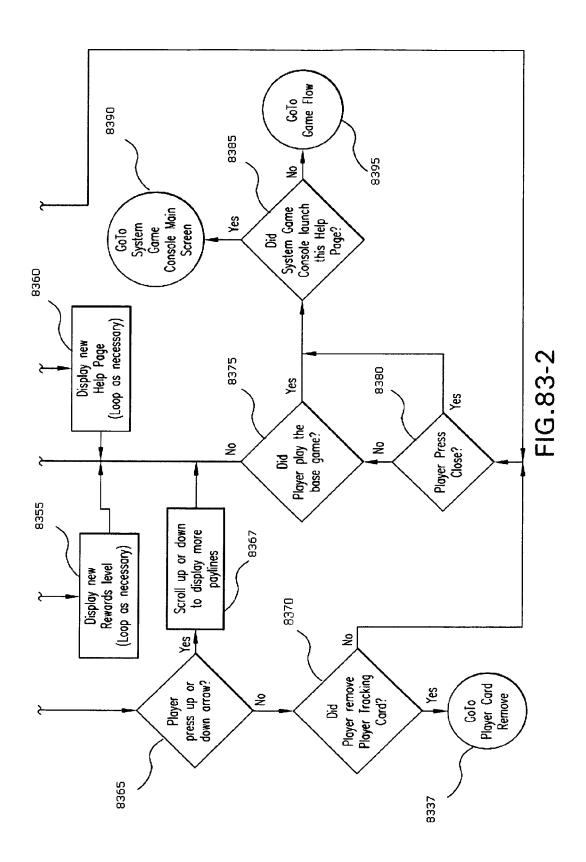
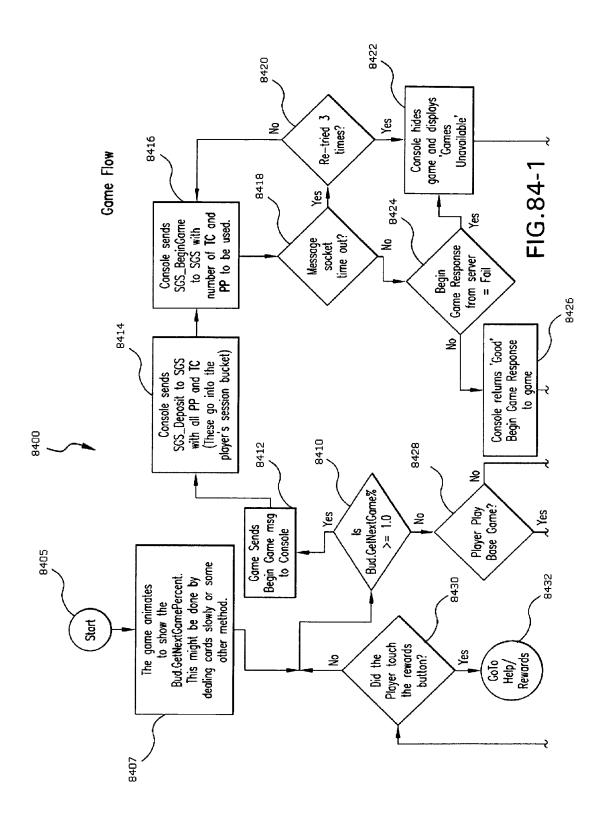
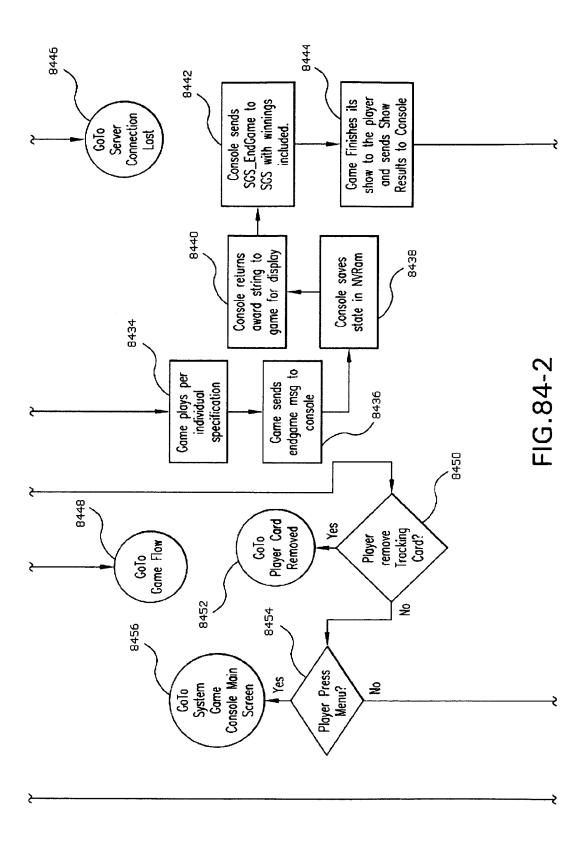


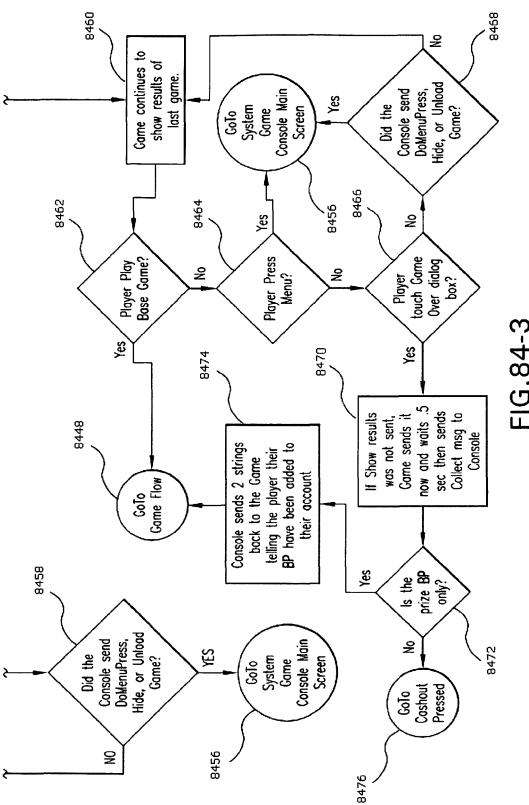
FIG.82-3

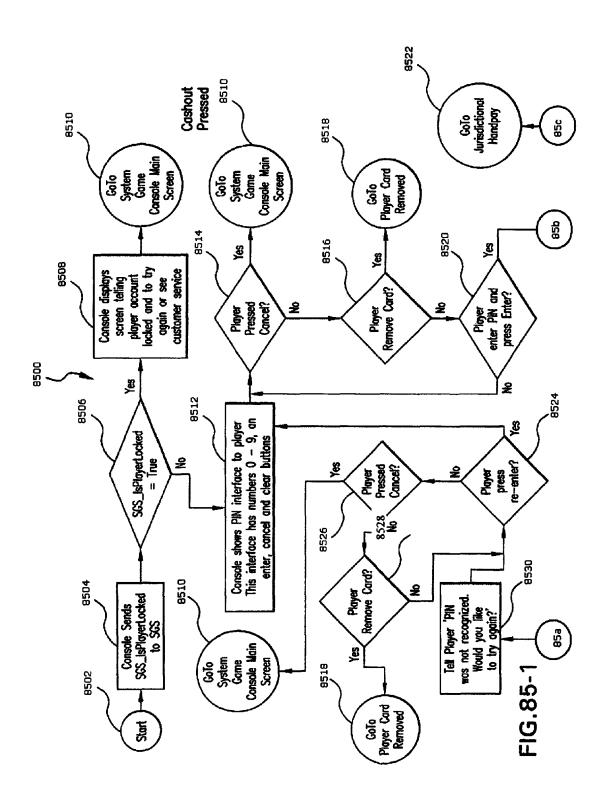


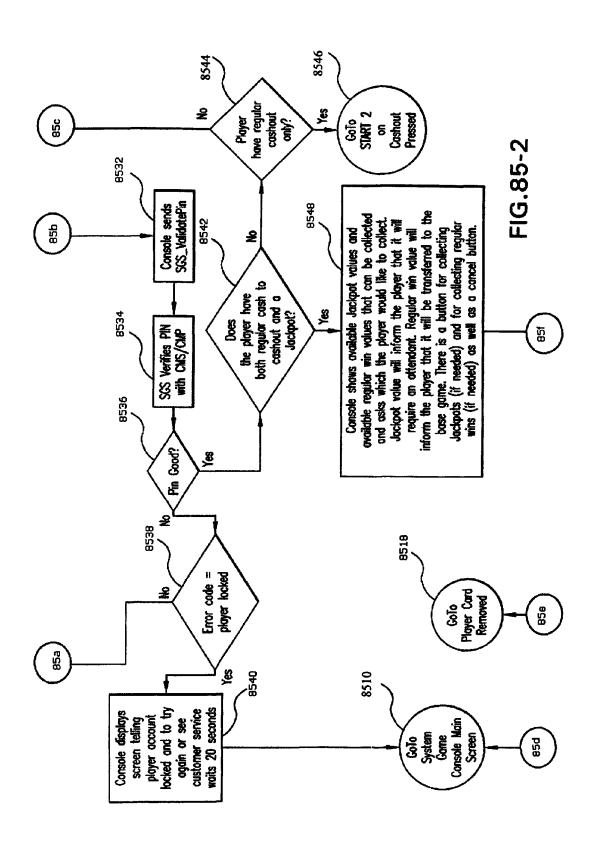




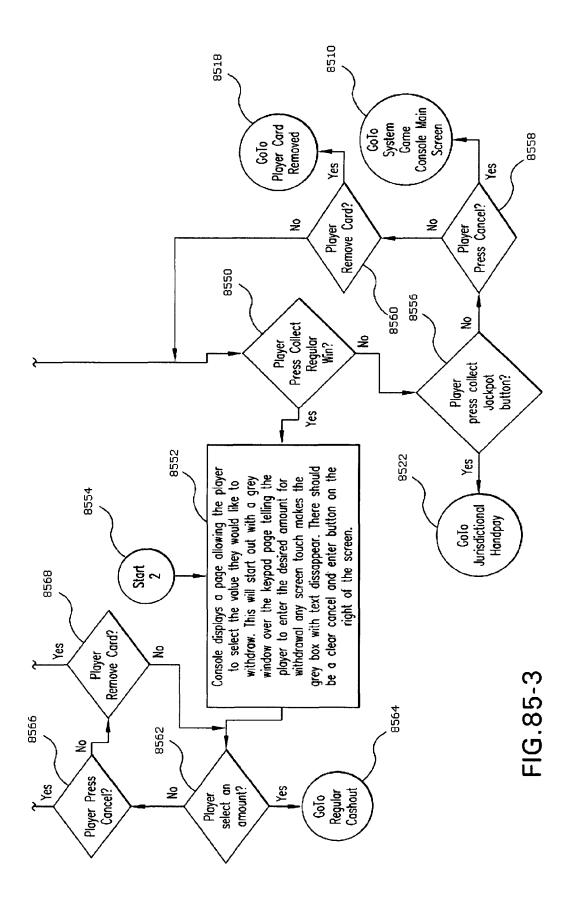


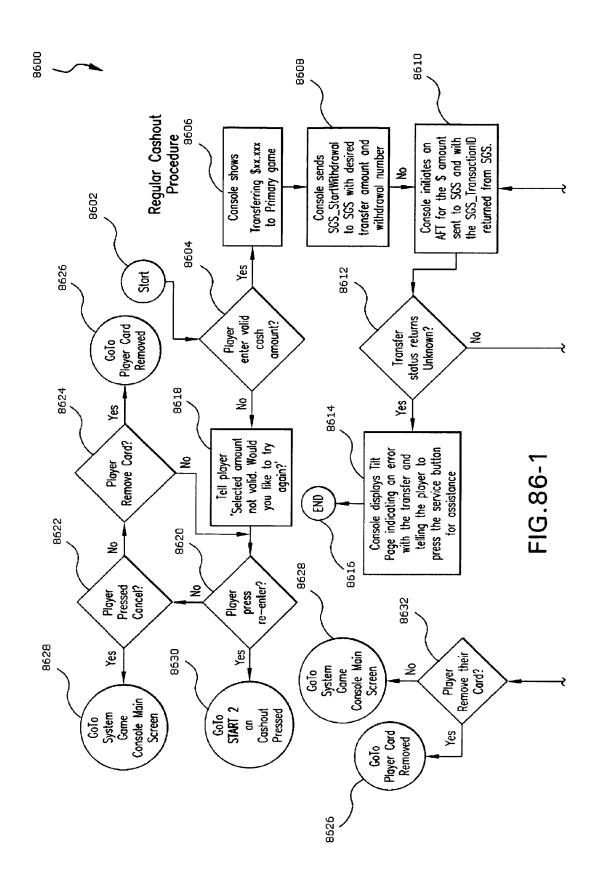


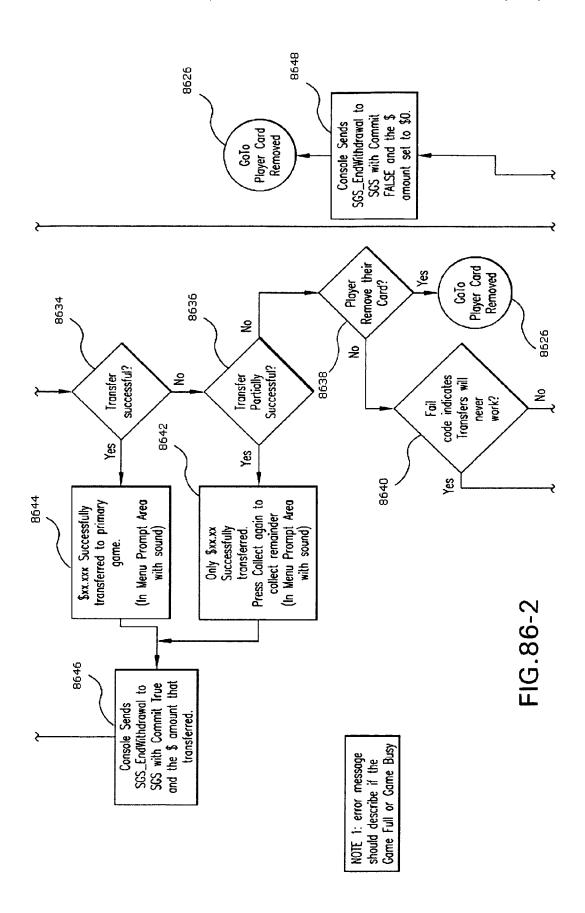


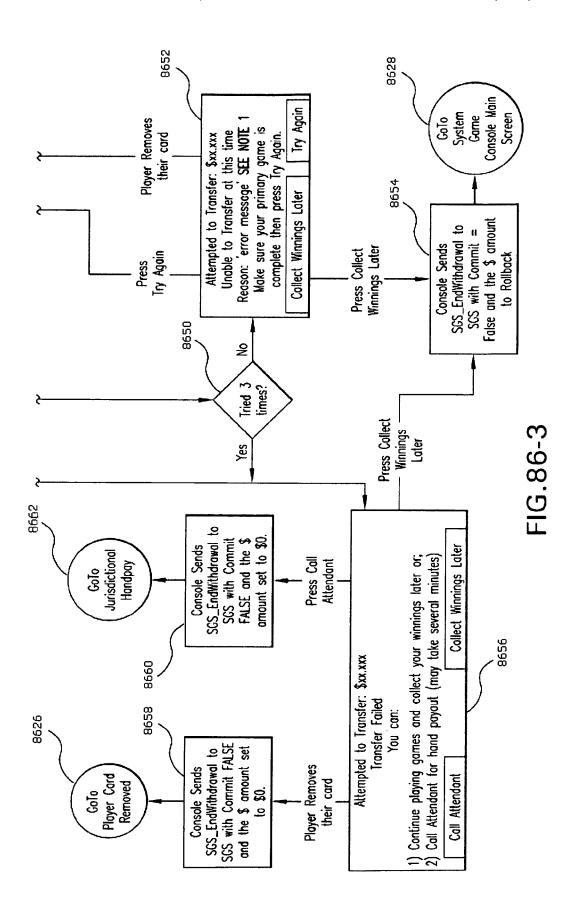


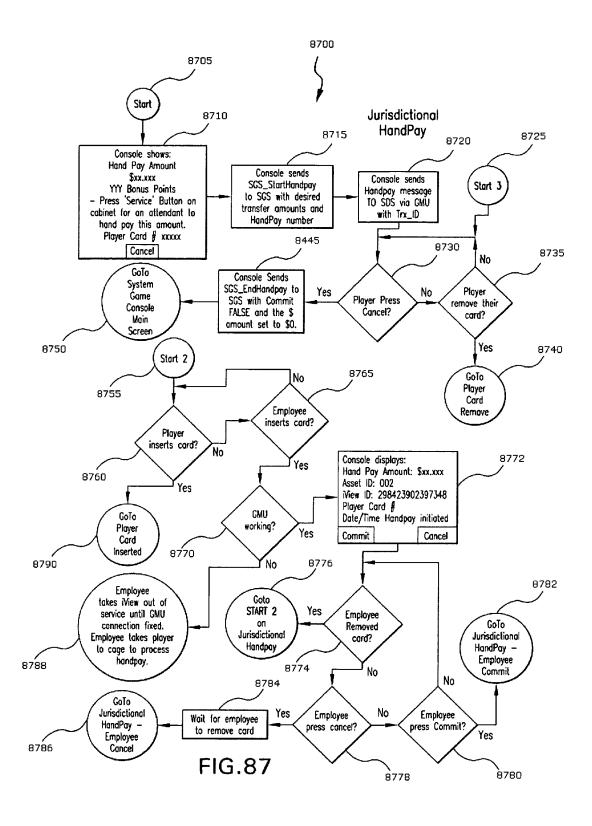
Jul. 14, 2015

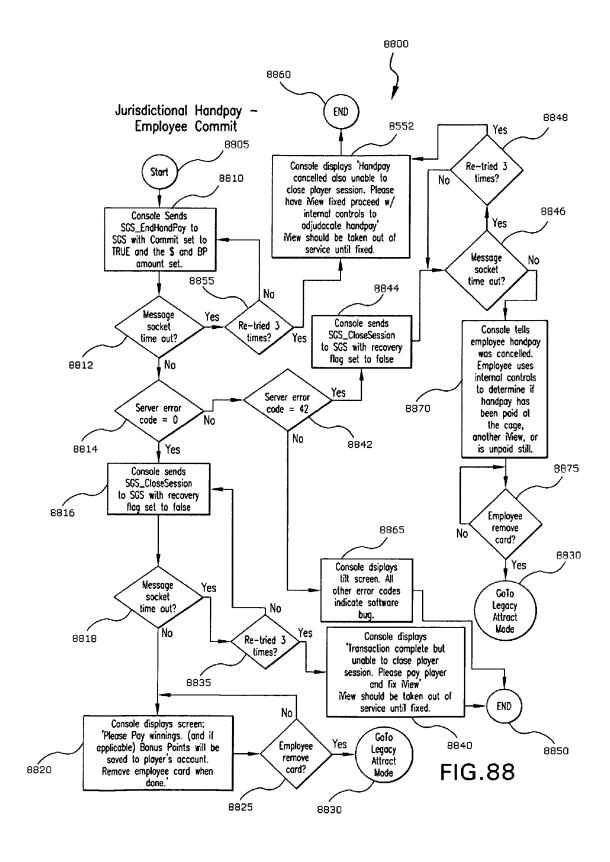


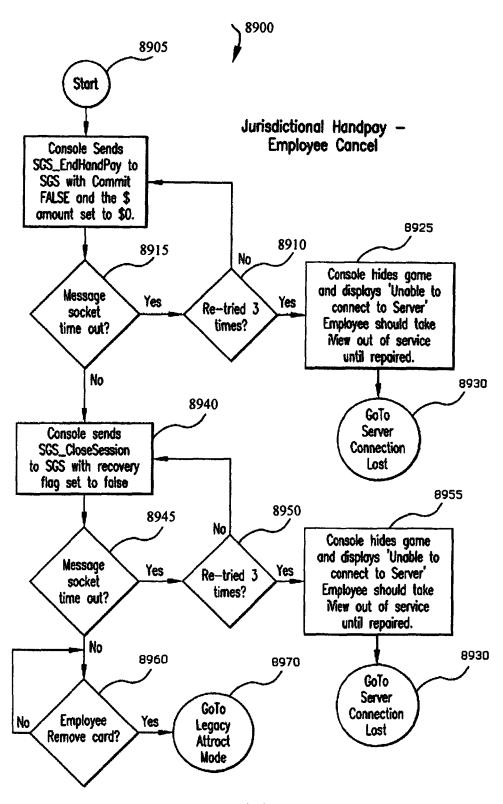




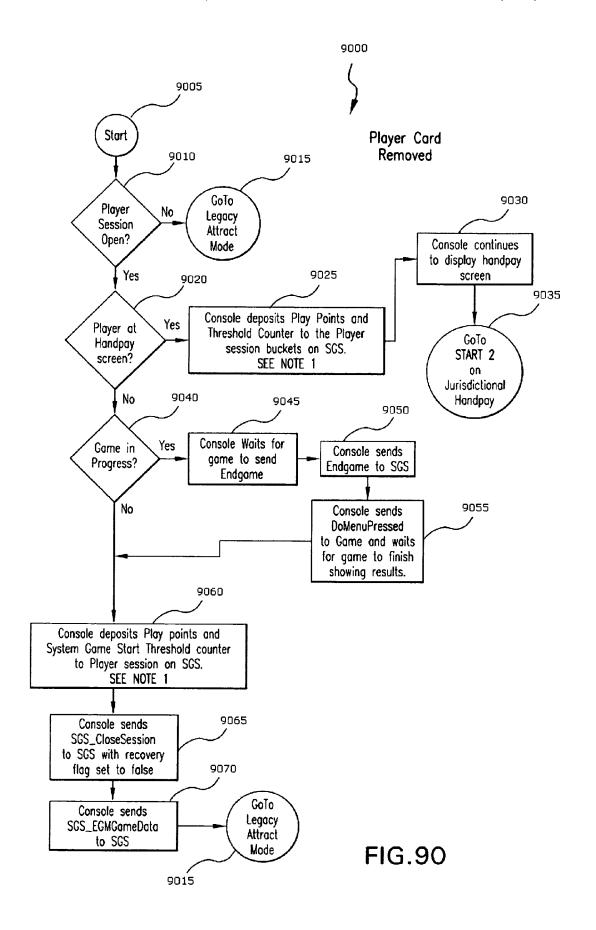


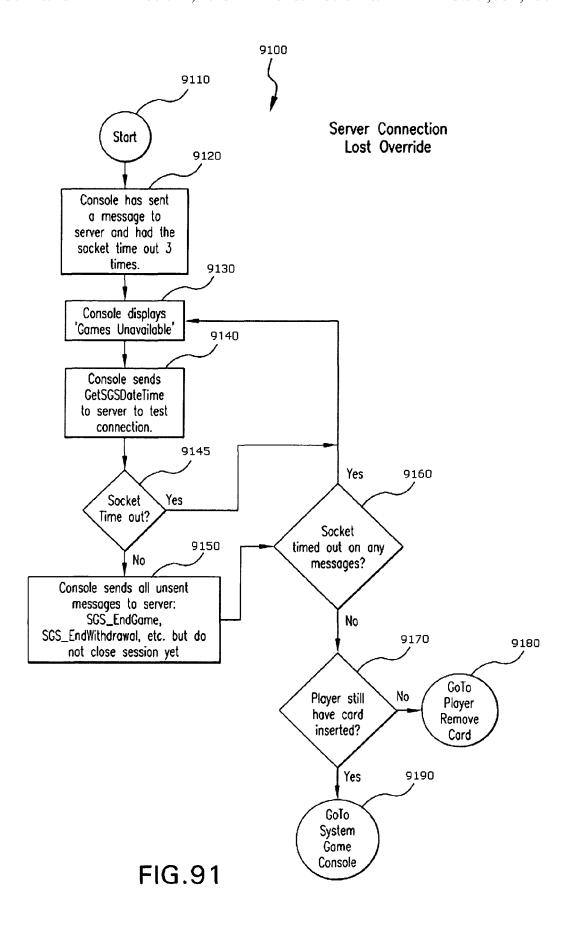


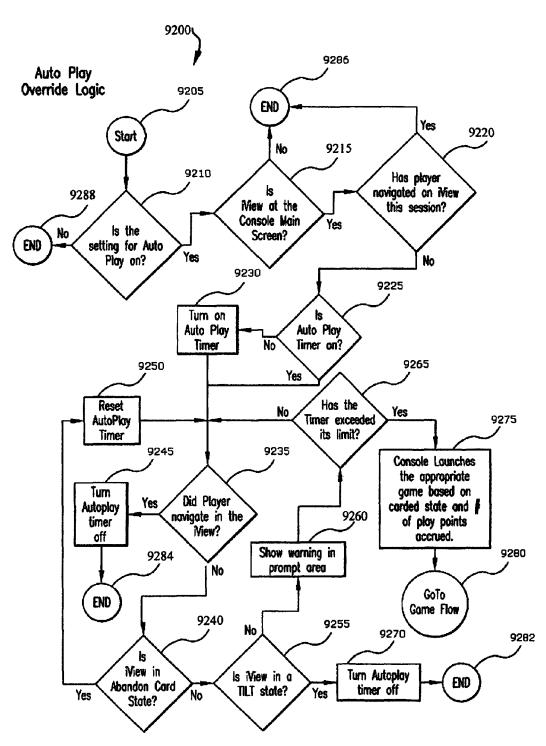




**FIG.89** 







**FIG.92** 

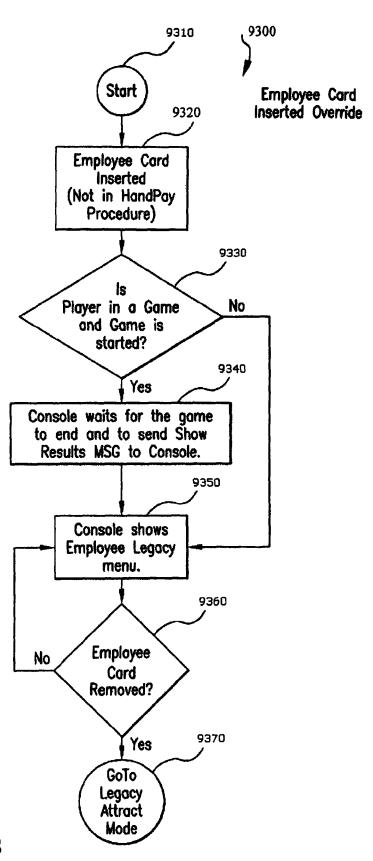
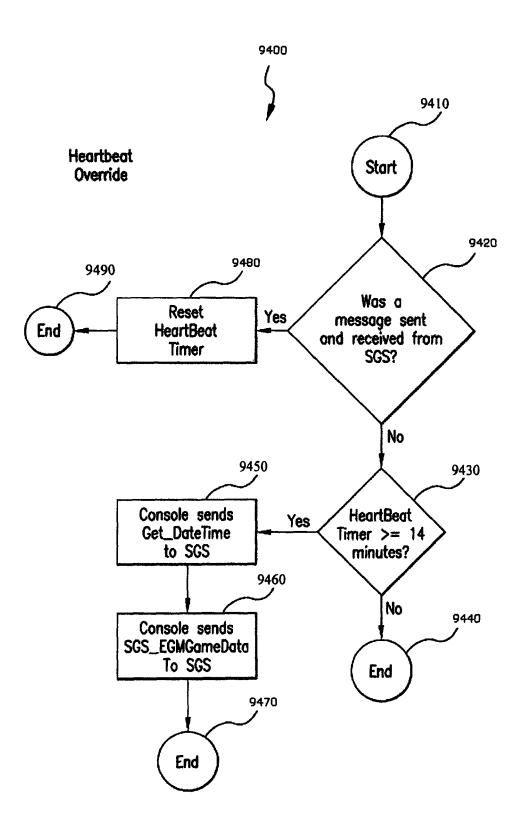
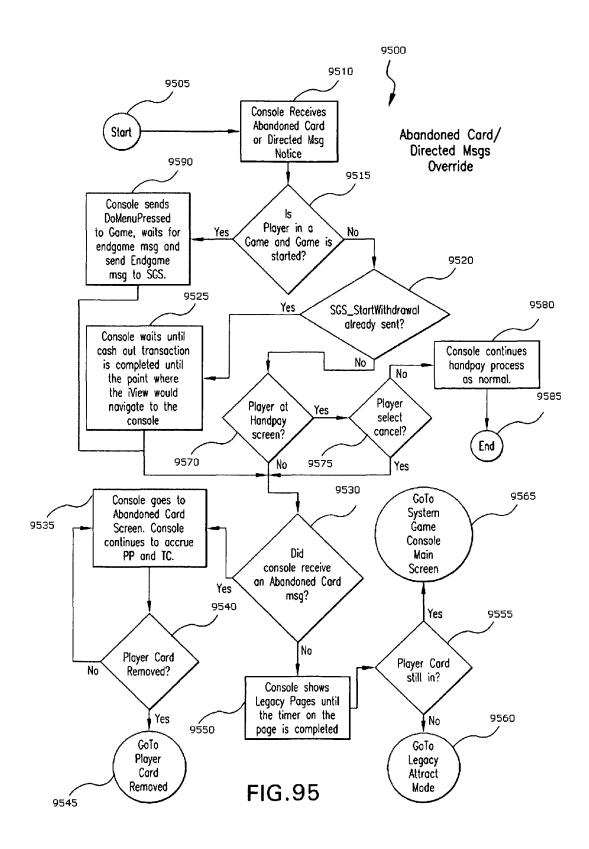


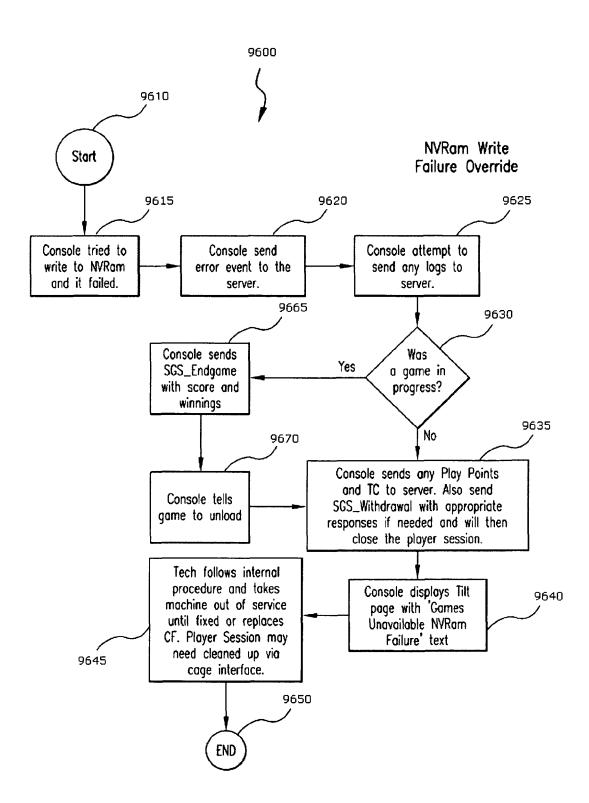
FIG.93



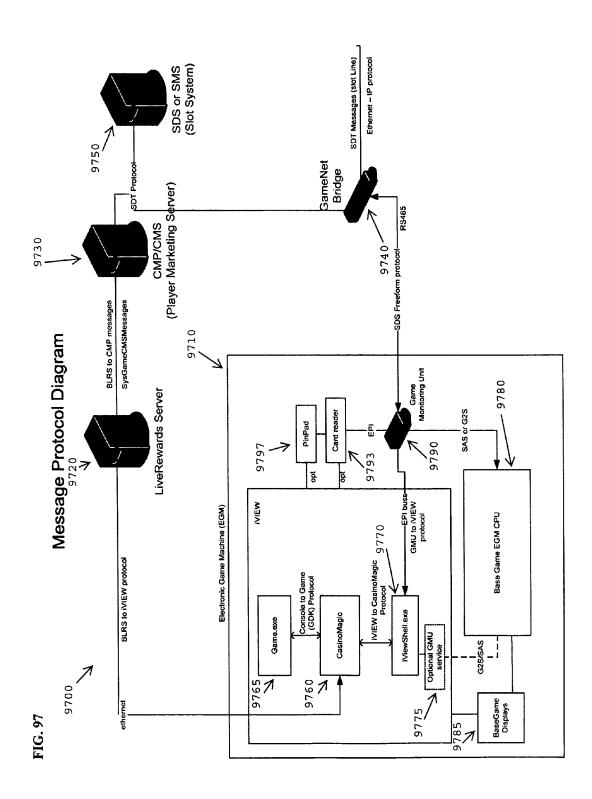
**FIG.94** 

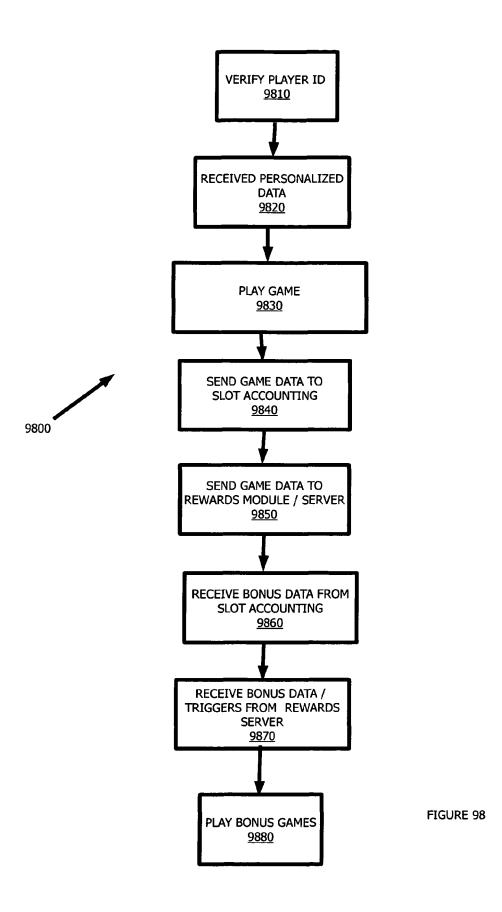
Jul. 14, 2015

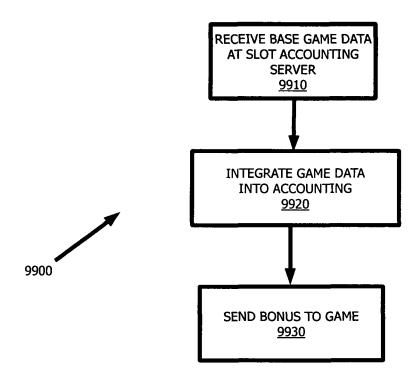


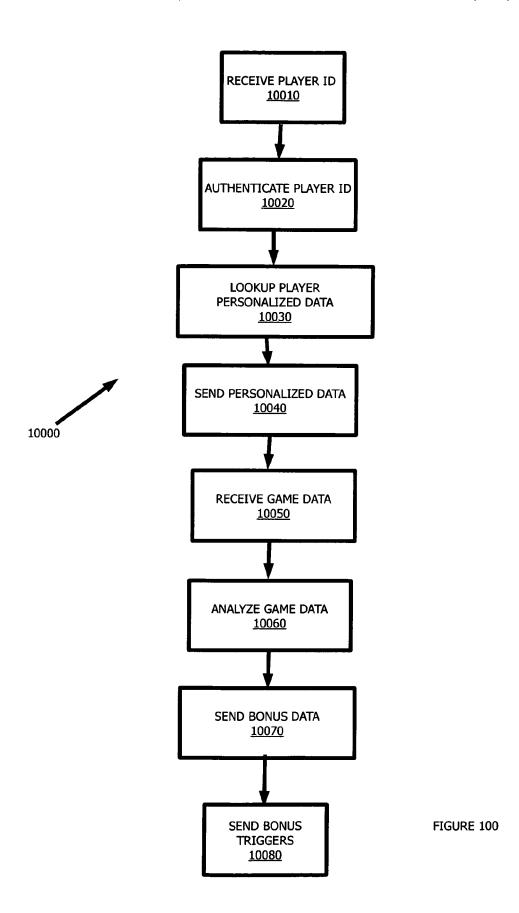


**FIG.96** 









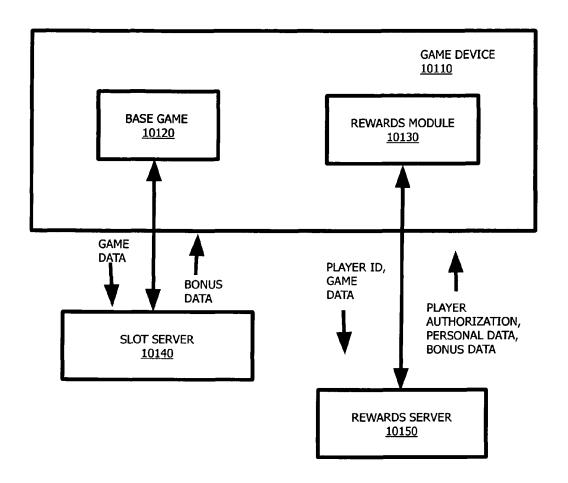




FIGURE 101

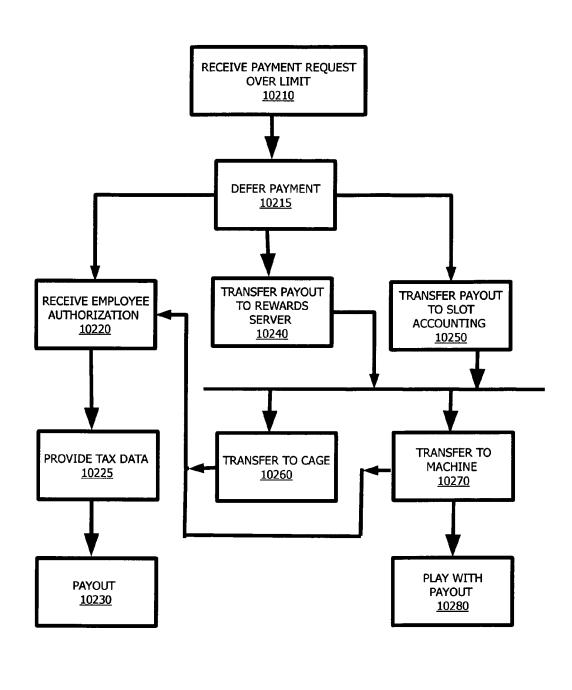




FIGURE 102

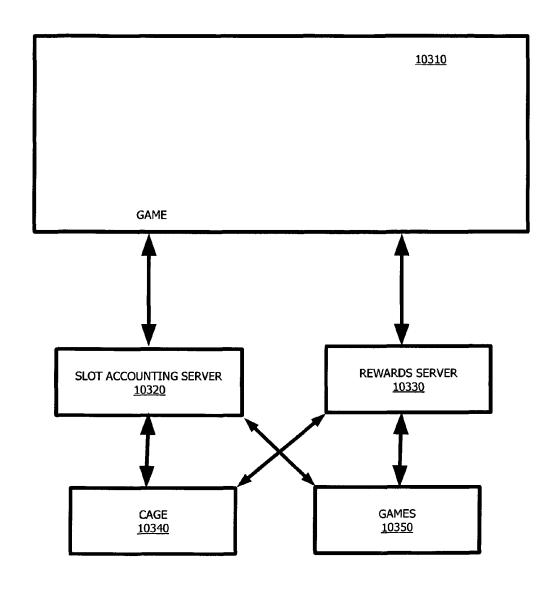




FIGURE 103

### NETWORKED GAMING SYSTEM COMMUNICATION PROTOCOLS AND METHODS

# CROSS REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of both U.S. Ser. No. 11/938,644 and U.S. Ser. No. 11/938,666, both filed on Nov. 12, 2007, both of which claim the benefit of U.S. Ser. No. 60/865,649, filed on Nov. 14, 2006, and both of which were a continuation-in-part of U.S. Ser. No. 11/470,606, filed on Sep. 6, 2006, and U.S. Ser. No. 10/943,771, filed Sep. 6, 2004; and this application claims the benefit of U.S. Ser. No. 60/987,234, U.S. Ser. No. 60/987,274, U.S. Ser. No. 60/987,274 and U.S. Ser. No. 60/987,266, U.S. Ser. No. 60/987,274 and U.S. Ser. No. 60/987,402, all filed on Nov. 12, 2007, all of which are hereby incorporated by reference herein in their entirety.

This application is also related to U.S. Ser. No. 11/065,757, <sup>20</sup> filed Feb. 24, 2005, which is a continuation-in-part of U.S. Ser. No. 10/243,912, filed on Sep. 13, 2002, both of which are hereby incorporated by reference herein in their entirety.

This application is further related to U.S. Ser. No. 12/291, 836, filed Nov. 12, 2008, U.S. Ser. No. 12/291,833, filed Nov. 25 12, 2008, U.S. Ser. No. 12/291,847, filed Nov. 12, 2008, U.S. Ser. No. 12/291,835, filed Nov. 12, 2008, U.S. Ser. No. 12/291,842, filed Nov. 12, 2008, U.S. Ser. No. 12/291,844, filed Nov. 12, 2008, U.S. Ser. No. 12/291,843, filed Nov. 12, 2008, U.S. Ser. No. 12/291,843, filed Nov. 12, 2008, U.S. Ser. No. 12/291,845, filed Nov. 12, 2008, U.S. Ser. No. 12/291,845, filed Nov. 12, 2008, all of which are hereby incorporated by reference herein in their entirety.

### COPYRIGHT NOTICE

A portion of the disclosure of this patent document contains material that is subject to copyright protection. The copyright owner has no objection to the facsimile reproduction by anyone of the patent document or the patent disclosure, as it appears in the Patent and Trademark Office patent files or records, but otherwise reserves all copyright rights whatsoever.

#### BACKGROUND OF THE INVENTION

#### 1. Field of the Invention

The field of the invention relates to wagering games, and more specifically to networked gaming systems and methods which offer or provide games, such as systems-based games, to players based on player patronage.

## 2. Description of the Related Art

Various networked gaming systems have been developed over the years beginning at least in the 1980's. With acceptance and utilization, users such as casino operators have found it desirable to increase the computer management of 55 their facilities and expand features available on networked gaming systems. For instance, there are various areas in the management of casinos that is very labor intensive, such as reconfiguring gaming machines, changing games on the gaming machines, and performing cash transactions for custom- 60 ers

Amongst the services that may be provided include player rewards based on game play and other patronage. Player tracking systems and servers may be implemented as part of networked gaming systems. To facilitate communication 65 between the various components on the system, various communication protocols may be implemented.

2

There continues to be a need for improved protocols as information needs grow and as various features and aspects are implemented on the networked gaming systems.

#### SUMMARY OF THE INVENTION

In one aspect of the invention, a network-based game is provided through a player interface console based upon play of a base game. The network-based game is provided through a game server connected to a computerized management system.

In an embodiment, a method is provided. The method includes sending base game data from a game management unit of a first gaming device to a first server using a first protocol. The method also includes receiving the base game data from the game management unit of the first gaming device at the first server and integrating the base game data into a slot accounting system of the first server. The method further includes sending base game data from the game management unit to a system processor of a rewards module using a second protocol and receiving the base game data at the rewards module of the first gaming device. The method also includes communicating personalized gaming data from a second server to a system processor of a rewards module of the first gaming device using a third protocol.

Additionally, the method includes receiving the personalized gaming data at the system processor of the rewards module of the first gaming device and integrating the personalized gaming data into the game management unit of the first gaming device. The method further includes communicating personalized gaming results from a system processor of a rewards module of the first gaming device to a second server using a third protocol and receiving the personalized gaming results at the second server from the first gaming device. Moreover, the method includes analyzing the personalized gaming results for threshold changes at the second server and sending triggers for personalized bonus games from the second server to the first gaming device using the third protocol. The method also includes receiving from the second server personalized bonus game triggers at the first gaming device.

In another embodiment, a method is provided. The method includes receiving identification of a player and communicating identification of the player to a second server using a third protocol. The method further includes receiving personalized gaming parameters from the second server using the third protocol and integrating personalized gaming parameters into a game management unit of a gaming device. The method also includes communicating base game data from the game management unit of the gaming device to a first server using a first protocol. The method further includes communicating base game data from the game management unit to a system processor of a rewards module using a second protocol. The method also includes communicating rewards game data from a system processor of a rewards module of the gaming device to the second server using a third protocol. The method further includes receiving from the second server bonus game triggers using the third protocol.

In still another embodiment, a method is provided. The method includes receiving identification of players at a plurality of gaming devices. The method also includes communicating identification of the players to a second server using a third protocol. The method further includes receiving personalized gaming parameters from the second server using the third protocol at each gaming device of the plurality of gaming devices. Also, the method includes integrating personalized gaming parameters into a game management unit of each gaming device. Additionally, the method includes

sending base game data from the game management units of the plurality of gaming devices to a first server using a first protocol. Moreover, the method includes sending base game data from the game management unit to a system processor of a rewards module using a second protocol in a plurality of gaming devices. Furthermore, the method includes communicating rewards game data from the system processor of a rewards module of each of the plurality of gaming devices to the second server using the third protocol. The method also includes sending triggers for personalized bonus games from 10 the second server to gaming devices of the plurality of gaming devices using the third protocol.

In another embodiment, a method is provided. The method includes playing a game at a first gaming machine. The method also includes accumulating a balance above a first 15 threshold amount. The method further includes paying out a portion of the balance below the first threshold amount. The method also includes deferring payout of the portion of the balance above the first threshold amount.

method includes playing a game at a first gaming machine. The method also includes accumulating a balance above a first threshold amount. The method further includes paying out a portion of the balance below the first threshold amount. The method also includes deferring payout of the portion of 25 the balance above the first threshold amount. The method further includes transferring the portion of the balance above the first threshold amount to a server.

In still another embodiment, a method is provided. The method includes receiving player identification data from a 30 rewards card of the player at a first gaming machine. The method also includes verifying player identification data of a rewards card with identification input of the player. The verifying includes submitting player identification data and input of the player to a server and receiving an authorization from 35 the server. The method further includes playing a game at a first gaming machine. The method also includes accumulating a balance above a first threshold amount. The method further includes paying out a portion of the balance below the payout of the portion of the balance above the first threshold amount. The method further includes transferring the portion of the balance above the first threshold amount to a server.

Further aspects, features and advantages of various embodiments of the invention may be apparent from the 45 following detailed disclosure, taken in conjunction with the accompanying sheets of drawings.

#### BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1 illustrates a main game panel on a player console in accordance with one or more embodiments of the present

FIG. 2A, 2B, 2C illustrate a main game panel on a player console at various stages of game play of a player in accor- 55 dance with one or more embodiments of the present inven-

FIG. 3A, 3B, 3C, 3D illustrate a sequence of example game panels on a player console showing a bingo game from beginning to end in accordance with one or more embodiments of 60 the present invention.

FIG. 4A, 4B illustrate a rewards and a help panel on a player console providing information about an associated game, such as bingo or poker, in accordance with one or more embodiments of the present invention.

FIG. 5A, 5B, 5C illustrate a sequence of example game panels on a player console showing a poker game from begin-

ning to game play in accordance with one or more embodiments of the present invention.

FIG. 6A, 6B, 6C illustrate a main game, rewards and help panel on a player console providing information about an associated poker game in accordance with one or more embodiments of the present invention.

FIG. 7A, 7B (collectively, FIG. 7) illustrate a contrast between level one rewards versus level five rewards as shown on a rewards panel on a player console in accordance with one or more embodiments of the present invention.

FIG. 8A, 8B, 8C illustrate game ending panels on a player console with various outcomes in accordance with one or more embodiments of the present invention.

FIG. 9A-1, 9A-2, 9A-3, 9A-4, 9B-1, 9B-2 (collectively, FIG. 9) illustrate a cashing out sequence beginning from a main game panel on a player console in accordance with one or more embodiments of the present invention.

FIG. 10A, 10B, 10C (collectively, FIG. 10) illustrate a In yet another embodiment, a method is provided. The 20 sequence of advertising panels on a player console in accordance with one or more embodiments of the present inven-

> FIG. 11A illustrates an example high-level block diagram of a gaming machine in accordance with various embodiments.

> FIG. 11B illustrates an example gaming machine in accordance with various embodiments.

FIGS. 12A and 12B illustrate a simple block diagram of a rewards server connecting over a network to a representative example gaming machine in accordance with various embodiments.

FIG. 13, 14 illustrate a pair of screenshots to access the Live Rewards employee functions at the iVIEW device.

FIG. 15, 16, 17 illustrate a series of screenshots showing the Machine Details in the employee function pages at the iVIEW.

FIG. 18, 19 illustrate a screenshot of the Device Configuration in the employee function pages at the iVIEW.

FIG. 20A, 20B, 20C, 20D (collectively referred to as FIG. first threshold amount. The method also includes deferring 40 20) illustrate a series of screenshots of the Reports available on iVIEW showing Withdrawal transactions, Hand pay transactions, and game play transactions. These pages are seen in the employee function pages

> FIG. 21A, 21B (collectively referred to as FIG. 21) illustrate a series of screenshots shown to the employee if the device is to be taken out of service. These pages are seen in the employee function pages.

FIG. 22 illustrates a screenshot of the Clear NV-RAM on the iVIEW. This allows the battery backed ram or other 50 iVIEW storage device to be cleared of its variables and reinitialize itself back to its original state as if Live Rewards was never run on the device.

FIG. 23 illustrates a screenshot of the Player Page shown to the player after a valid player card insertion at the Player Tracking panel. The player can select ePromo (funds transfers to the gaming device), Service Request, or Play Games and enter the live Rewards gaming portal on the iVIEW.

FIG. 24, 24A (collectively referred to as FIG. 24) illustrate a pair of screenshots of the Live Rewards Server Activate iVIEW for Live Rewards Games. Live Rewards can be enabled or disabled for each gaming device on the casino

FIG. 25, 25A (collectively referred to as FIG. 25) illustrate a pair of screenshots of the Live Rewards Server Assign Games to Player feature. This is where specific games and their pay table sets are assigned to specific club levels of players.

FIG. 26, 26A (collectively referred to as FIG. 26) illustrate a pair of screenshots of the Live Rewards Server Ban Players user interface. Specific players can be prohibited to play the Live Rewards product.

FIG. 27, 27A (collectively referred to as FIG. 27) illustrate 5 a pair of screenshots of the Live Rewards Server Clear PIN lockout function. Players that enter their PIN (personnel identification number) wrong too many times in a row have their account locked. This interface for casino personnel will allow the lock to be cleared.

FIG. 28, 28A (collectively referred to as FIG. 28) illustrate a pair of screenshots of the Live Rewards Server Copy Pay Table Sets feature. Other pay table sets can be copied as a means to quickly setup slightly modified pay table sets.

FIG. 29, 29A (collectively referred to as FIG. 29) illustrate 15 a pair of screenshots of the Live Rewards Server Debit/Credit Player Account feature. A player has 4 player buckets that are non-restricted for use and 4 that are Jurisdictional and may require a hand pay to collect the value. This screen gives the casino personnel the ability to debit or credit any of the 20

FIG. 30, 30A (collectively referred to as FIG. 30) illustrate a pair of screenshots of the Live Rewards Server Global Settings feature. Various variables are configured here and these settings are sent to the iVIEW for use.

FIG. 31, 31A (collectively referred to as FIG. 31) illustrate a pair of screenshots of the Live Rewards Server Import Pay Table Sets feature. This allows casino personnel to import different pay tables for a particular game ID. The files are in XML format.

FIG. 32, 32A (collectively referred to as FIG. 32) illustrate a pair of screenshots of the Live Rewards Server Game Start Rules. This is where the casino operator configures the rules for a player earning bonus games. This is player type specific. How many play points are accrued for X amount of wagering 35 required. A start threshold is configured here as another means to control the Bonus game frequency. A base game even, a max bet event, a session time event, and session continuation time event are configured to increment a players specific threshold counter by a certain amount. Once the 40 player has enough Threshold counter points (over the threshold) and the player has enough play points for the game then the selected game will be able to be played by the player.

FIG. 33 illustrates a screen shot of the Live Rewards Server login page. Two users with administrator rights are required 45 a pair of screenshots of the Live Rewards Server Report to modify any settings.

FIG. 34, 34A (collectively referred to as FIG. 34) illustrate a pair of screenshots of the Live Rewards Server Manage Pay Table Sets feature. This page allows the casino attendant select different pay table sets for specific games for specific 50 play types. This is showing the Blue Spot Bingo being configured.

FIG. 35, 35A (collectively referred to as FIG. 35) illustrate a pair of screenshots of the Live Rewards Server Manage Pay Table Sets feature. This page allows the casino attendant to 55 select different pay table sets for specific games for specific play types. This is showing the PayDay Poker being configured.

FIG. 36, 36A (collectively referred to as FIG. 36) illustrate a pair of screenshots of the Live Rewards Server Modify Pay 60 Table Sets feature. This page allows the casino attendant to edit a pay table set. The cost to play each level is set here shown as Threshold or Play Points required. The specific game settings used for this PayTable can be modified (view game settings). And the specific amount of cash and/or Bonus 65 Points can be set for each winning combination in a game. This is showing how Blue Spot Bingo is configured.

FIG. 37, 37A (collectively referred to as FIG. 37) illustrate a pair of screenshots of the Live Rewards Server Modify Pay Table Sets feature. This page allows the casino attendant to edit a pay table set. The cost to play each level is set here shown as Threshold or Play Points required. The specific game settings used for this PayTable can be modified (view game settings). And the specific amount of cash and/or Bonus Points can be set for each winning combination in a game. This is showing how PayDay Poker is configured.

FIG. 38, 38A (collectively referred to as FIG. 38) illustrate a pair of screenshots of the Live Rewards Server Player Session Activity feature. All Transactions that a player has done against his player buckets in the server are shown here. Every debit and credit is accounted for on what iVIEW, what session, what time, as are all bucket balances.

FIG. 39, 39A (collectively referred to as FIG. 39) illustrate a pair of screenshots of the Live Rewards Server Player Session Deposits feature. Every transaction for an actively playing person is tracked here including deposits, bucket affected, current balances, who initiated the transaction, and what is the status on the pending transaction (committed, rolled back, cancelled, etc.)

FIG. 40, 40A (collectively referred to as FIG. 40) illustrate a pair of screenshots of the Live Rewards Server Player Session Withdrawals feature. Every withdrawal transaction to the player account for an actively playing player is shown here. For example: if you spend your accrued play points, it gets debited from your player card account or if your cash winnings are transferred from the iVIEW to the slot machine, it gets debited from your Live Rewards account and credited to your main player account on the casino management system or onto the slot machine itself.

FIG. 41, 41A (collectively referred to as FIG. 41) illustrate a pair of screenshots of the Live Rewards Server Player Session Game Activity. All game transactions for a specific player are shown on this screen.

FIG. 42, 42A (collectively referred to as FIG. 42) illustrate a pair of screenshots of the Live Rewards Server Prizes-Conversion screen. This screen shows casino personnel which types of prizes are configured for which types of players, they effective cost or value of the prize types and what are the currently configured expire rules for these player account buckets.

FIG. 43, 43A (collectively referred to as FIG. 43) illustrate configurations feature. All reports will be configured with this information. Also the time that the reports will run once a day can be configured here.

FIG. 44, 44A (collectively referred to as FIG. 44) illustrate a pair of screenshots of the Live Rewards Server Notification Messages report. All iVIEW events and Live Rewards server events are logged to this page. This feature is used to help casino personnel view error or other events for maintenance and customer service reasons.

FIG. 45, 45A (collectively referred to as FIG. 45) illustrate a pair of screenshots of the Live Rewards Server Games Settings Changes History report. All settings that are changed to the Live Rewards server are viewable here. What was changed, who did it and time are the types of data shown. Regulators use this to monitor for compliance reasons.

FIG. 46, 46A (collectively referred to as FIG. 46) illustrate a pair of screenshots of the Live Rewards Server Global Settings Change History report. All settings that are changed to the Live Rewards server are viewable here in this report. What was changed, who did it and time are the types of data shown. Regulators use this to monitor for compliance rea-

FIG. 47, 47A (collectively referred to as FIG. 47) illustrate a pair of screenshots of the Live Rewards Server Pay Table Settings Change History report. All settings that are changed to the Live Rewards server are viewable here. What was changed, who did it and time are the types of data shown. 5 Regulators use this to monitor for compliance reasons.

FIG. 48, 48A (collectively referred to as FIG. 48) illustrate a pair of screenshots of the Live Rewards Server Live Rewards Start Rules Settings Change History report. All settings that are changed to the Live Rewards server are viewable 10 here. What was changed, who did it and time are the types of data shown. Regulators use this to monitor for compliance

FIG. 49, 49A (collectively referred to as FIG. 49) illustrate a pair of screenshots of the Live Rewards Server User Session 15 Logs report. All logins, attempted, successful, failures are logged here. Regulators use this to monitor for compliance reasons

FIG. 50, 50A (collectively referred to as FIG. 50) illustrate a pair of screenshots of the Live Rewards Server Patron Sum- 20 mary/Details report. Various game play history, debits, credits, wins/losses are shown here for specific players in a specific time range. Summary or details pages are available.

FIG. 51, 51A (collectively referred to as FIG. 51) illustrate a pair of screenshots of the Live Rewards Server iVIEW 25 summary report. Device specific reports (independent of player) is shown here.

FIG. 52, 52A (collectively referred to as FIG. 52) illustrate a pair of screenshots of the Live Rewards Server Liability Report report. The total liability to the casino is shown here 30 for all buckets types for all players combined.

FIG. 53, 53A (collectively referred to as FIG. 53) illustrate a pair of screenshots of the Live Rewards Server Patron Details report. Summary or detailed data is available on a specific player or all players. This shows the individual trans- 35 Rewards Game Outcome Results Process. action details.

FIG. 54, 54A (collectively referred to as FIG. 54) illustrate a pair of screenshots of the Live Rewards Server Summary report. Summary data for each player or all players is shown

FIG. 55, 55A (collectively referred to as FIG. 55) illustrate a pair of screenshots of the Live Rewards Server Transaction Details report. All transactional data is logged and is viewable here. Transactions are debit/credits to the player accounts. The transaction ID, data/time, which player card, source of 45 transaction, source ID, prize type, transaction type (debit/ credit), transaction value, jurisdictional event, status is shown.

FIG. 56, 56A (collectively referred to as FIG. 56) illustrate a pair of screenshots of the Live Rewards Server Create New 50 User feature. New users are given administrator roles (all features), reports only, and/or Player management rights only.

FIGS. 57-1, 57-2, 57-3 (collectively referred to as FIG. 57) illustrate a flowchart of two players playing using the same player card and inserting them into two different slot 55 machines player tracking systems at different times. The cards are both create child session accounts from the same parent master player account. The available funds for each player are shown throughout the sessions of each person.

FIGS. 58, 58-1, 58-2, 58-3, 58-4, 58-5, 58-6 (collectively 60 referred to as FIG. 58) illustrate a spreadsheet showing the Live Rewards Session accounts and how they work throughout a series of 36 steps. This spreadsheet shows 1 sub account playing on iVIEW ID 176 using player card #123. This person is the first to put in the player card. The session buckets for this 65 player are shown and the master server buckets or meters are shown.

FIGS. 59-1, 59-2, 59-3 (collectively referred to as FIG. 59) are the continuation of FIG. 58 to the right side of the spreadsheet. This shows the  $2^{nd}$  player playing on iVIEW ID 473 using player card #123 as well. This player inserts his card at step 13 and is the  $2^{nd}$  session account off of the parent

FIG. **60** illustrates a network diagram of the Live Rewards Gaming system. This figure shows how the client side is configured together as well as how the slot management system and CMP/CMS systems are linked to the Live Rewards Server.

FIG. 61 illustrates a network diagram of the Live Rewards Gaming system. This figure shows how the client side is configured together as well as how the slot management system and CMP/CMS systems are linked to the Live Rewards Server.

FIG. 62-1, 62-2 (collectively referred to as FIG. 62) illustrate a software flowchart showing how the Live Rewards bonus game frequency of play is controlled. The server side variables are configured as shown in FIG. 32. Events contribute to a threshold counter. The threshold counter and the cost of the game are used to control the frequency of a player being able to play a live rewards game. Even if the player has enough play points to play the game may no be enabled to play unless the business rules on this figure are achieved.

FIG. 63-1, 63-2 (collectively referred to as FIG. 63) illustrate a software flowchart of the ACSC Live rewards transactions both on the client and in the server.

FIG. 64 illustrates a flowchart of the ACSC iSERIES Live Rewards Card in Process.

FIG. 65 illustrates a flowchart of the ACSC iSERIES Live Rewards Play Points Earned Process.

FIG. 66 illustrates a flowchart of the ACSC iSERIES Live

FIG. 67 illustrates a flowchart of the ACSC iSERIES Live Rewards Cash/Points Withdrawal process.

FIG. 68 illustrates a screenshot of the ACSC iSERIES user interface to generate encrypted number of valid assets for System Games. It is part of the license management of the Live Rewards Server.

FIG. 69 illustrates a screenshot of the ACSC iSERIES administration page. From this page all sub menus are allowed to be accessed.

FIG. 70 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page. This is where the player assigns specific Asset numbers (EGMS or game devices) to run Live Reward System Games. This is also where the encrypted license management keys are entered.

FIG. 71 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where a the casino applies the encrypted number of valid assets to Run Live Rewards.

FIG. 72 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where the total number of Asset licenses available and unsent are shown.

FIG. 73 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where the site can maintain assets allowed to be part of the System Games. This site has an unlimited number of licenses.

FIG. 74 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where the site can maintain assets allowed to be part of the System Games. This site has a 5000 licenses available to be assigned.

FIG. 75 illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where the site can maintain assets allowed to be part of the System Games. This site has a 5000 licenses available to be assigned. The site is assigning

a specific asset number of 525 to be allowed to run the Live Rewards system game product.

FIG. **76** illustrates a screenshot of the ACSC iSERIES Live Rewards administration page where the site can control various global features.

FIGS. 77, 77-1, 77-2, 77-3, 77-4, 77-5, 77-6 (collectively referred to as FIG. 77) illustrate a database schema for the Live Rewards Server.

FIGS. **78-1**, **78-2**, **78-3** (collectively referred to as FIG. **78**) illustrate a flowchart of the Boot-up recovery process of the 10 live rewards games on iVIEW.

FIG. 79 illustrates a flowchart of the Attract mode logic.

FIG. **80** illustrates a flowchart of what happens at Player Card insertion time.

FIGS. **81-1**, **81-2**, **81-3** (collectively referred to as FIG. **78**) 15 illustrate a flowchart of what happens when the player interacts with the Legacy Player Pages.

FIGS. **82-1**, **82-2**, **82-3** (collectively referred to as FIG. **82**) illustrate a flowchart of what happens when the on the System Game Console Main game screen.

FIGS. 83-1, 83-2 (collectively referred to as FIG. 83) illustrate a flowchart of what happens when the player enters the Help/Rewards pages on the iVIEW.

FIGS. **84-1**, **84-2**, **84-3** (collectively referred to as FIG. **84**) illustrate a software flowchart of what happens during the 25 game play process.

FIGS. 85-1, 85-2, 85-3 (collectively referred to as FIG. 85) illustrate a software flowchart of what happens during the cash out process.

FIGS. **86-1**, **86-2**, **86-3** (collectively referred to as FIG. **86**) 30 illustrate a software flowchart of what happens during a regular cash out procedure.

FIG. **87** illustrates a software flowchart of what happens during a jurisdictional Hand pay.

FIG. **88** illustrates a software flowchart of what happens 35 when the employee commits the hand pay.

FIG. **89** illustrates a software flowchart of what happens when the employee cancels the hand pay.

FIG. 90 illustrates a software flowchart of what happens when the player removes the player card.

FIG. **91** illustrates a software flowchart of what happens when the server connection is lost from the iVIEW.

FIG. **92** illustrates a software flowchart of how the Auto Play logic works.

FIG. 93 illustrates a software flowchart of what happens 45 when the employee card is inserted.

FIG. **94** illustrates a software flowchart of heartbeat messages from the iVIEW to the Live Rewards server or SGS.

FIG. **95** illustrates a software flowchart of what happens when abandoned player cards or directed messages come in 50 from the Game monitoring unit.

FIG. **96** illustrates a software flowchart of what happens when the writing to the non-volatile memory fails.

FIG. **97** illustrates a message protocol diagram for a gaming network including a Live Rewards server.

FIG. 98 illustrates an embodiment of a process of operating a gaming machine.

FIG. 99 illustrates an embodiment of a process of a slot accounting server interacting with a game machine.

FIG. **100** illustrates an embodiment of a process of operating a rewards server.

FIG. 101 illustrates an embodiment of a gaming system as used with the processes of FIGS. 98-100, for example.

FIG. 102 illustrates an embodiment of a process of paying out and transferring payouts.

FIG. 103 illustrates an embodiment of a gaming system as used with the process(es) of FIG. 102, for example.

10

# DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring generally to FIG. 1-23, a gaming rewards system, such as Bally Live Rewards, lets you offer carded players exciting bonus games through your existing gaming machines with networked player interface units, such as Bally iVIEW-equipped slot machines. This remarkable advancement in technology creates a thrilling gaming experience designed specifically to increase wagering activity. Once a Player's Club card is inserted into the slot machine, each bet on the base game brings the player closer to earning bonus game play. Once the minimum game play requirements have been met, the bonus game either starts automatically or the player can press a button to start the game. Bonus game winnings can be awarded in cash (to be transferred to the base game through an electronic funds transfer) or in bonus points. In one or more embodiments, Live Rewards bonus games require base game play; they cannot be played directly. Live Rewards uses high-resolution, animated graphics, quality sound, and a touch-screen display to provide players with bonus game content. This content is managed by the Live Rewards Server (LRS) through the Windows-based Live Rewards management application. There are currently two bonus games available through Live Rewards: Blue Spot Bingo and Payday Poker.

The Live Rewards user interface runs on the iVIEW display, allowing customers to play bonus games and transfer their cash winnings to the base game. Players can choose from two Live Rewards bonus games: Blue Spot Bingo and Payday Poker.

Live Rewards has two distinct counters that determine the player's bonus game experience: play points and game start threshold

Play points are used to determine the pay table used for the bonus game—the more play points a player accrues, the higher the payout amount (equal to one cent for determining prizes on bonus game pay tables) of the corresponding pay table. A play point is defined as one cent of every dollar bet at the base game. This is a pre-set, non-configurable value that has no actual monetary value and cannot be redeemed. The rate at which a player accrues play points is determined by players club membership level and is configured through the Live Rewards Server.

Players track play point accrual through the Reward Level indicator on the left-hand side of the screen. As play points are accrued and the reward level increments, the player sees poker chips stack up. When game play begins, the number of play points used for the game is determined by the number of play points accrued minus the number of play points in the highest qualifying Pay table.

The game start threshold determines when a player has played enough base games to start a bonus game.

For each base game played, the player earns a TC (Thresh-55 old Counter), which is depicted on the user interface as a light surrounding the selected game logo. A player earns a TC based on the number of games played the time spent playing, and the maximum bet for each game.

Play points and the game start threshold may be programmed directly on the gaming machines or may be managed remotely from a networked server, such as the Bally Live Rewards Server (LRS).

Play Points are the unit currency used by the player to play a Live Rewards game. Play points are earned based on Base Game Wager times and the accrual rate set for each Player's Club level. Play Points have no redeemable value, but are considered to be worth \$0.01 for the purpose of deriving the

Live Rewards game Pay tables. You cannot adjust this value. In one or more embodiments, play points are restricted to the play of Live Rewards games and are not cashable.

Play Points earned on the iVIEW are transferred to the player's session account on the LRS before any Live Rewards 5 game begins and at player card removal. Play Points are decremented from the player's server account when a Live Rewards game is played.

The amount of Play Points decremented is determined by the amount of Play Point accumulated when the player has 10 played a number of games equal to the Live Rewards Game Start Threshold. The number of Play Points determine, which Pay Table the player receives with the Pay Table that takes the maximum number of earned Play Points being automatically selected. In one or more embodiments, Play Points are 15 awarded only by play of base game and are not awarded by any other means.

The number of Play Points awarded is equal to the product of the following equation:

Play Points=[Base Game Wager (in dollars)×Accrual
Rate (set by BLRS)]/[Value of Play Points (in

Client Side processing of Play Points (PP) and Threshold counters (TC's)

- On card-in the client may register the player's card number to the iVIEW and receive the values of the reserve account for display purposes.
- 2) As the player plays the base game PP and TC's may accrue on the client.
- 3) At Card-out, Recovery start-up, and before a Begin Game is sent to the LIVE REWARDS SERVER all PP and TC accrued on the iVIEW are transferred to the LIVE REWARDS SERVER.
- 4) When the iVIEW has determined the player has accrued 35 enough TC and PP for a game (combined total of reserve account and remaining PP's and TC's on iVIEW) the iVIEW allows the player the option to start a game. If the player elects to start a game:
  - a) All PP's and TC's are transferred via 3-stage commit to 40 LIVE REWARDS SERVER.
  - b) Current totals in reserve account are returned to iVIEW.
  - c) If total is still acceptable to starting a game iVIEW sends a Begin Game message to LIVE REWARDS SERVER that includes the number of PP's and TC's to be used.
  - d) Based on server setting send a -1 for TC's to be used may use them all.
  - e) LIVE REWARDS SERVER sends a response back to the iVIEW that includes a History ID number (HID) and a success or Fail.
  - f) If Success is returned iVIEW proceeds to play the system game.
  - g) At game conclusion a End Game messages sent to LIVE REWARDS SERVER Via 2 stage commit (stage 1 of the 3 stages was Begin Game). The end game contains the 55 value of any winnings the player won.
  - h) Winnings in the End Game are stored in the player's reserve account.
- 5) Bonus Points (BP's) are immediately transferred to CMS from LIVE REWARDS SERVER.
- 6) Cash winnings in the reserve account are shown to the player and accessible after Pin-in for AFT transfer from LIVE REWARDS SERVER to the base game.
- 7) On recovery any PP's, TC's, BP's and cash are transferred to LIVE REWARDS SERVER.
- 8) On recovery, If a Begin Game was sent and an End game was not completed the End game is sent with a recovery

12

status and the LIVE REWARDS SERVER rolls back the PP's and TC's used for the incomplete game are rolled back into the player's account and any reserve account for this card#/iVIEW ID is also rolled back into the player's account.

9) If the player is playing slowly and a Begin Game, End Game, or card out has not occurred in (Heartbeat time length—1 minute) the iVIEW sends a heartbeat to the LIVE REWARDS SERVER to keep the player's reserve account reserved.

Referring now to the drawings, wherein like reference numbers denote like or corresponding elements throughout the drawings, and more particularly referring to FIG. 1, player console 101 is shown, such as may be utilized to provide games, such as wagering games, to eligible patrons based upon pre-selected criterion, in accordance with one or more embodiments.

Referring further to FIG. 1, player console 101 may comprise a touch sensitive display and a console processor board 20 and be constructed as part of a player interface unit, such as a commercially available Bally iView, which may include a touch panel display, wherein the display shown on player console 101 in each of the respective figures may be conventionally generated by a microprocessor, digital signal processor, or controller using coding to generate the respective fields shown. The respective fields or areas of the display may be pressure sensitive to allow a player to transmit requests, inquiries, or commands. In another alternative, there may be keys or buttons that may surround or be situated about the perimeter of the display portion of player console 101. In an alternative, player console 101 may be conventionally generated on a wireless device, such as a Blackberry cellular phone or a tablet-style laptop computer.

In one or more aspects, player console 101 connects with a gaming apparatus, such as a gaming server or gaming machine, that may include one or more games, such as video games, for example the Blue Spot Bingo game shown in the figures, or electronic card games, such as the Payday poker game shown in the figures. The games may be executed on the gaming server or gaming machine, in which case player console 101 displays the game driven remotely, receives the signals to display the game information, and transmits requests or commands from the player. Player console 101 may have programming imposed restrictions on game play, such as playing thresholds to be achieved by a player prior to the player console game being enabled.

In one or more alternatives, player console 101 may display various games that are available for play, where any of the games may be selected by a player, such as by pressing the surface area in the case of a touch-sensitive display or an adjacent button. The game software may reside on a supporting game processor board which may be connected directly to the display portion of player console 101 or the game software or portions thereof may reside on the console processor board. In one or more alternatives, when a player selects a game, the game software may be transmitted from a server or gaming machine onto the console processor board.

Continuing to refer to FIG. 1, player console 101 displays a main panel 103 for a bingo game, in the example panel, the game is Blue Spot Bingo. As part of the display panel, a rewards level accumulator 107 is shown which displays the current player reward level, where the reward level is determined by the amount played on the base game. In the example, the player has reached reward level 11 and the rewards level accumulator 107 may be illuminated up to the level achieved. For example, reward level 11 may correspond to an eighty percentile level on the rewards level accumulator

107 and eighty percent of the scale may be illuminated green, while the remaining portion may be unlit. The panel 103 further shows a help area 111 which may be pressed to bring forward an informational display panel that may include the rules for playing the game and a paytable. Also, shown is a name section 113 displaying the name of the current game selected on player console 101 and a central name section 115 with the logo for the game.

The central name section 115 of the main panel 103 may include a perimeter of lights 117 which may illuminate as a player plays a base game and earns sufficient playing points to play the bonus game with player console 101. The base game may be a game that is played in a gaming machine that house player console 101 or it may be any game that a player plays and accumulates points that may be reflected on player con- 15 sole 101. As a player plays one or more base games, the green lights may illuminate sequentially around the perimeter 117 and correspond to playing points accrued by the player. By example, a player may accumulate one player point for every dollar wagered or there may be some other basis connected to 20 the player's wagering. Once all the lights around the perimeter 117 of the central name section 115 have been illuminated, then the player has accumulated sufficient player points to play the bonus game.

The main panel of player console 101 further may include a promotional cash level area 119 providing a display of the promotional cash available to transfer to a game, such as a base game, a player account 121 area that may be touch sensitive to bring forward a player account panel which may contain player points and available funds accessible through 30 a player account which may be example be maintained on a player account server connected over a network with player console 101. The main panel 103 may further include a funds collection area 123 that may bring forward a funds request panel which may allow a player to draw funds down to a base game or gaming machine and be either used for further wagering or cashed out if the funds have no restrictions, such as funds that may be used only for play on one of the games of a casino operator.

The main panel of player console **101** may further include 40 a game selector area or areas **125***a*, **125***b* which may be touch sensitive and enable a player to scroll backward, such as is shown by the area labeled "Last Game" **125***a* referring to a previous game's main panel, or, scroll forward, such as by pressing the area labeled "Next Game" **125***b* to view a next 45 bonus game's main panel from a list of available games.

In addition, the main panel of player console 101 may include a game initiator area 105 with a header, such as "Play Game". The game initiator area 105 may be illuminated when sufficient points have been accrued by a player to play the 50 bonus game. Illumination of the game initiator area 105 may alert a player that the player is eligible to play the bonus game. Alternatively, by pressing the button, the player may initiate the sequence of panels 127a, 127b, 127c, 127d shown in FIG. 3 below. At any time before the bonus game begins by selection of the blue spot numbers, a player may return to the main panel of FIG. 1 and browse for other games of interest.

In a further alternative, the player may be required to meet the threshold requirements of FIG. 1 before the player may open the panel shown in FIG. 3A in exchange for the accumulated player points. At which point, the player must continue to play the main game to accumulate additional player points to fully initiate the game sequence shown of panels 127a, 127b, 127c, 127d in FIG. 3A-D as described below.

Referring to FIGS. 2A, 2B, and 2C, the main panel 103 65 (103a, 103b, 103c, 103d) of the Blue Spot Bingo game is displayed on player console 101 where the perimeter lights

14

are shown with a beginning string of lights 108a illuminated, then a longer string of perimeter lights 108b illuminated until all the perimeter lights are illuminated. Simultaneously, the reward level indicator 109a, 109b, 109c (which may be associated with a player point accumulator that may be installed on the console processor board or remotely, such as on a player tracking server) may increase to correspond to threshold levels achieved by a player's play, such as player reward level "1", "2", and "11" shown in the figures as 109a, 109b and 109c respectively, and points accumulated. The perimeter lights may illuminate as playing thresholds are met by the player until all the lights are illuminated. At this point, the "Play Game" area may illuminate to indicate that the game play threshold has been met to play the bonus game and to indicate that the "Play Game" area is enabled so that the player may initiate the bonus game play.

The reward level achieved by a player may be used to determine a paytable associated with the bonus game. Apart from the number of points accrued, the reward level may be determined by denomination played by a player, for example a penny slot machine player may only be able to achieve level '3', whereas, with a nickel denomination slot machine, a player may be able to achieve level "5", and so forth. In addition, the number of coins per line may be a determinant on reward level that may be achieved, so that a player playing the minimum per line may achieve certain levels less than the highest level while a player playing maximum bets per line may achieve the highest reward level.

Referring to FIG. 3A, 3B, 3C, a sequence of panels show the example Blue Spot bingo game from beginning to finish of the game. The initial panel sequence of the bingo bonus game displays each of three bingo cards fully covered, FIG. 3A. In order to uncover the cards for play, the player must continue to play a base game to accumulate points and achieve thresholds which cause a portion of one or more cards to be uncovered (FIG. 3B) until as in FIG. 3C the cards are completely uncovered. The numbers that are selected for the player, are shaded on each card, such as shaded 'blue' to correspond to the name of the bingo game Blue Spot Bingo. The selected numbers on the cards may be selected randomly such as through a program operating the game. Alternatively, the numbers may be selected by a player where the player may be permitted a maximum number of selections on each card. In the example shown, card one and two have only two numbers that are selected and that need to be matched and card three has five numbers that are selected. The bingo numbered balls appear one at a time as they are drawn or simulated to be drawn from a pool of numbers corresponding to a range, such as one through seventy-five. The drawn numbers that match to the numbers on the card are marked, such as by circling as shown in FIG. 3C. Additionally, the matched numbers may be illuminated. If all the shaded numbers on a card are circled, then the player wins the award that is associated with the bingo card. In FIG. 3C, the potential awards for each card are listed above the card which as an example are 12 points, 60 points, and \$600, respectively. It may be noted in the example that the cards with the lower potential awards have the least amount of numbers that need to be matched and therefore have the greater likelihood of being a winning card.

The amount of the potential award corresponds to the rewards level, which by example is "4" as shown in the rewards level indicator on the panel of FIG. 3C. In the example, no card had all matching numbers, so the game is over and no award is given to the player and a "Game Over" caption is displayed in the upper display area while the player may continue to see the respective cards for a short period on

FIG. 3C. After the short period, such as ten seconds, has passed, a panel as shown in FIG. 3D may be displayed which includes a large game ending placard area displayed across the cards indicating the game is over, for example "\*\*\*Game Over\*\*\*". On the game ending placard, a further informational area may be included that may be touch sensitive to enable a player to access the rewards/help panel, which may provide the player with the rules and potential rewards available for the game.

Further referring to FIG. 3A, 3B, 3C, an informational 10 panel may be located at the top and when the game is initially ready to play with all the cards covered, additional information may be provided on the cover of each card, such as "Play Main Game to Reveal Cards", "Main Game Wagers Increase Reward Levels", and "Mark all Blue Spots on one card to 15 Win". Additionally, on each panel may be a menu button area which may be touch sensitive and allowing a player to restore the main game panel as shown in FIG. 1.

Referring to FIG. 4A, 4B, panels 400, 402 are shown that may be displayed when a player presses the help or rewards/ 20 help buttons shown in FIG. 3C or FIG. 1. In the example, FIG. 4A displays the initial help screen and provides the rules of the game, such as the name of the game (the current example figure has the incorrect name a the top of the help screen, it should be "Blue Spot Bingo"), the requirements for the player 25 to be eligible to play the game by playing a main game to uncover the bingo cards, the requirement that each of the blue spots on a card must be matched by the drawn bingo ball numbers to be a winner and that there can be more than one winning card, an instruction that the player may touch the 30 menu button to collect any winnings. The help panel 400 also may include a touch sensitive rewards button and a close button. By pressing the rewards button, a reward panel 402 as in FIG. 4B may be displayed to inform a player of the rewards for each of the bingo cards that may be obtained in accordance 35 with the rewards level. For example, FIG. 4B shows the rewards for level one for each of the cards one, two, and three to be two points, ten points, and one hundred dollars, respectively. In addition to touch sensitive help and close buttons, an arrows button is displayed which enables a player to scroll 40 through each of the levels and corresponding rewards. The close button enables a player to request the main game panel to be displayed.

Referring to FIGS. 5A, 5B, and 5C, a second game, Payday Poker is shown, via panels 500, 502, 504 which has similar 45 functional aspects as described above with respect to the Blue Spot Bingo game. As in FIG. 1, FIG. 5A has a perimeter light area about the central game name display area where portions of the lights are illuminated as the player plays a base game, accumulates player points, and achieves thresholds. Once the 50 perimeter lights are fully illuminated the "Play Game" button may be illuminated and activated so that the player may initiate the initial game sequence which is a panel such as shown in FIG. 5B where there are five card places which are initially empty. As the player plays the base game and 55 achieves thresholds, a covered card begins to appear until it is complete, then a next card begins to appear as the player continues to play and achieve thresholds. In the FIG. 5B example, the player has achieved a number of thresholds and has acquired or drawn three complete covered cards and has 60 partially met the needed thresholds to obtain the fourth card. When the player has obtained five covered cards, the hand is complete and then each card may be sequentially uncovered to show the player what hand of cards has been drawn, the process of uncovering the cards being shown in FIG. 5C. The 65 process of uncovering may be automatic or the player may initiate the uncovering by pressing on each card; the cards

16

may only be uncovered after a complete hand has been drawn. In the event that a winning combination has been obtained, then the player may select another panel to collect the winnings, such as by pressing the "Menu" button to return to the main game panel and then pressing the "Collect" button.

Referring to FIGS. 6A, 6B, and 6C, an example main panel 600, help panel 602, and rewards panel 604 are shown for the example bonus game Payday Poker. From the main panel 600, a player may access the help panel 602 by pressing the "Help" button on the main panel 600. As in the earlier described game, the help panel 602 may provides the name of the game, a description as to how the game is played and the game requirements, an instruction as to how to collect winnings. The help panel 602 may further include touch sensitive "Rewards" and "Close" buttons enabling a player to request the display of the potential rewards for each rewards level or return to the main panel 600. In the case of the Payday Poker Game, FIG. 6C, shows the potential rewards, via panel 604 for a player reaching level eleven to include: \$5000 for a Royal Flush, \$1000 for a Straight Flush, \$400 for Four of a Kind, \$100 for a Full House, 600 points for a Flush, 400 points for a Straight, 200 points for Three of a Kind, 100 points for Two Pair, and 20 points for Jacks or better. In the example, level eleven is the highest level and the arrow button points left to indicate that the only further selections are at the lower levels.

Referring to FIG. 7, an example partially shown rewards panel 700 associated with level one and a rewards panel 702 associated with level five illustrate the different potential rewards for the respective levels, such as the potential reward for a Royal Flush for a level one player is \$250 while a level five player may receive \$2000. As discussed above, various determinants may be utilized to elevate the rewards level, such as points, denomination wagered, and amounts wagered per line.

Referring to FIGS. 8A, 8B, and 8C, example game concluding panels 800, 802, 804 are shown with a banner section partially covering the uncovered hand of cards. An upper display section indicates the status of the hand and the banner section indicates whether the player has won an award. In the case of FIG. 8A, the player has Four of a Kind and is a level 11 player, so the win is \$400 and the display indicates "Congratulations you win \$400". In the case of FIG. 8B, the player has a losing hand and the display indicates "Game Over" and "No Win". In the case of FIG. 8C, the player has a Flush which is shown in the upper display window and the banner displays "Congratulations you Won \$10+240 points". To return to the main screen, the players may simply press the "Menu" button. Alternatively, an additional button may appear such as a "Collect Winnings" touch sensitive panel as part of the banner, FIG. 8A or the banner may have a 'Rewards/Help" touch sensitive panel, FIG. 8C.

Referring to FIGS. 9A-1 through 9B-2, a sequence flow of panels 900, 902, 904, 906 is shown by example for a player to collect cash winnings. In the example shown, Bally Live Rewards may be cashed out from the main game panel by pressing the touch sensitive "Collect" button. By example, cash winnings shown in the main display panel may be transferred to the base game through an electronic funds transfer. Alternatively, a player may leave cash winnings in a player account until another gaming session. As shown, when the player presses the "Collect" button, a panel is displayed for entering the player's personal identification number (PIN). If the PIN is correct, then a panel is displayed requesting the player to enter the amount to be collected. By default, the total amount in the player's account may appear on the display. The player may withdraw any portion thereof. Once the trans-

action is complete, the player may be returned to a main menu screen. In the event that the transaction fails after multiple attempts, the player may be provided a "Call Attendant" button or a "Continue Playing" button.

Referring to FIG. 10, a sequence of advertising panels 5 1000, 1002, 1004 is shown that may be displayed when player console 101 has been inactive for a period of time, such as when no game points are being accumulated by a player. Alternatively, the advertising panels 1000, 1002, 1004 may appear when an associated base game has been inactive for a 10 pre-determined period of time, such as five minutes. In another alternative, an associated base game may be active, but a player may not have been identified, such as with a playing card, and the advertising panels 1000, 1002, 1004 may be shown. The advertising panels 1000, 1002, 1004 may 15 provide information apprising a player how to participate in the bonus games, how to achieve reward levels, and how to initiate game play by achieving the thresholds of play through playing points.

Referring to FIGS. 11A and 11B, a block diagram and front 20 view of example gaming machine 1100 are shown, respectively. Gaming machine 1100 may include apparatus and/or software for implementing one or more player-centric rewards processes as discussed above and in accordance with is implemented as an electronically functional device using conventional personal computer technology with few or no moving parts; however gaming machine 1100 may also be implemented as an electro-mechanical or mechanical device.

For example, gaming machine 1100 as shown in FIGS. 30 11A and 11B may include a game printed circuit board including game processor 1110, memory 1115 which may store the game machine operating system and game presentation software 1120, network interface 1125 for connecting to an operator's network, video display 1130 which may display a game driven by processor 1110 and may have fields for example displaying player credits, wager, win amount, etc., user input devices 1135 which may provide buttons or video fields for a user to communicate with gaming machine 1100 through processor 1110, user card interface 1140 which 40 may provide a device for transmitting player card information to processor 1110, and peripheral devices 1145 such as a bill acceptor or ticket dispenser, etc.

In the example of a video gaming machine, game processor 1110 communicatively connects to video display 1130 which 45 displays images of reels that function equivalently as mechanical or electro-mechanical reels, user interface unit including user input devices 1135 which provides information to a patron and permits patron communications with the game processor and/or a network connected through network 50 interface 1125, user card interface 1140 which provides a device for receiving and reading player card information, and peripheral devices 1145, such as a bill reader for receiving and reading various bill denominations, coupons, and/or credit vouchers, and, a voucher printer which may be com- 55 bined with the bill reader and may print credit vouchers when a patron wishes to cash out and/or print rewards vouchers when a patron accepts an award.

Video display 1130 may be any of a variety of conventional displays, such as a high resolution LCD flat panel, and may 60 have touch screen display functionality so that a patron can make software-enabled selections which may be associated with the game. Apart from its conventional functionality in presenting a game for a patron, gaming machine 1100 may include award software which may be stored in memory 1115 65 and hardware which may be part of or connected to the game board to implement one or more player-centric rewards pro18

cesses as disclosed above by example. Video display 1130 may include a separate user display such as an LCD touch screen display with interactive capability for communication between a user, gaming machine 1100, or a network connectable through network interface 1125.

Memory 1120 may include both memory internal and external to processor 1110. External memory may include a hard drive, flash memory, random access memory (RAM), read only memory (ROM), and any other conventional memory associable with a printed circuit board.

In the event that gaming machine 1100 is connected to a network, then the rewards software and hardware may be implemented wholly or partly externally and may be communicatively connected to the user interface unit for notifying patrons of rewards and receiving patron communications, such as award acceptances. For instance, gaming machine 1100 may have a game management unit (GMU) which connects to a slot management (SMS) and/or casino management (CMS) network system. The GMU may in turn connect to the game board and the user interface unit. The player-centric rewards may be driven through the GMU, either directly or indirectly through the SMS and/or CMS which is discussed more fully below.

Referring to FIGS. 11A and 11B, typically, gaming one or more embodiments. Typically, gaming machine 1100 25 machine 1100, such as Bally's \$9000 Video Slot machine, comprises microprocessor 1110, such as an Intel Pentiumclass microprocessor, and non-volatile memory 1115 operable to store a gaming operating system, such as Bally's Alpha OS, and one or more gaming presentations 1120, such as Bally's Blazing 7's or Bonus Times for example, operable and connected on a printed circuit motherboard with conventional ports and connections for interfacing with various devices and controlling the operation of gaming machine 1100. Memory 1115 may store one or more software modules operable with the OS to implement one or more reward processes, such as are described above in relation to FIG. 1-10.

> Gaming machine 1100 may include network interface 1125 operable to download one or more gaming presentations 1120 from the one or more gaming servers (not shown) and to otherwise communicate with networked devices and servers for various purposes; however, one or more player-centric award processes as described above by example may be implemented with or without network support depending on implementations as is described further below. Gaming machine 1100 may further comprise a video display 1130, through which gaming presentations are presented to the user; however, electro-mechanically driven reels may be implemented in place of or together with video display 1130. Gaming machine 1100 may further comprise user interface devices 1135, such as a keyboard (not shown) which may be used to enter a pin number or for the selection of various options, various player selectable buttons 1137 including bet one, bet all and the like, as well as a touch screen which may be incorporated with video display 1130 or display 1139, such as an iView TFT display. Gaming machine 1100 also includes user card interface 1140, which is operable to accept a user card that identifies a user as a casino patron to the gaming environment. Gaming machine 1100 may further include one or more peripheral devices 1145, such as a bill/ ticket acceptor, ticket printer, and various other devices. As shown in FIG. 11B, user card interface 1140 and peripheral devices 1145, such as a bill acceptor may be implemented adjacent to each other or may be part of the same housing structure while connecting differently to perform their respective functions. In the event a network connection exists, then the user interface unit may provide a communication link for a patron with an SMS and/or CMS network.

In one or more embodiments, gaming machine 1100 includes microprocessor 1110, which may implement the programming logic of the gaming presentations and control the operation of various hardware and software components of the gaming machine, as well as, one or more peripheral 5 devices 1145. For example, microprocessor 1110 may be operable to activate various components of the gaming machine 1100 and, in the event of a network connection, to download one or more gaming presentations 1120 from the gaming server. In response to a user input to initiate play and the placement of a wager, the microprocessor 1110 may be configured to retrieve the requested gaming presentation 1120 from memory 1115 and to commence the play of the game. The microprocessor 1110 may be configured to randomly select a game outcome from a plurality of possible 15 outcomes and to cause the video display 1130 to depict indicia representative of the selected game outcome. In the case of slots, for example, mechanical or simulated slot reels may be rotated and stopped to display symbols on the reels in visual association with one or more pay lines. If the selected out- 20 come is one of the winning outcomes defined by a pay table, the microprocessor 1110 may be configured to award the player with a number of credits associated with the winning outcome. Conventionally, in such gaming machines, a player may wager multiple credits on one or more lines depending 25 upon the programming or physical limitations of the gaming machine.

In one or more embodiments, gaming machine 1100 includes user input devices 1135, which may include various gaming controls, such as standard or game-specific push- 30 buttons, a "bet" button for wagering, a "play" button for commencing play, a "collect" button for cashing out, a "help" button for viewing a help screen, a "pay table" button for viewing the pay table(s), a "call attendant" button for calling an attendant, and a "rewards button" for viewing player 35 reward information and accepting various rewards, such as opportunities to play bonus games and obtain additional player awards. User input devices 135 may also include various game-specific buttons known to those skilled in the art. User input devices 1135 may also include a keyboard, a 40 pointing device, such as a mouse or a trackball, or any other input devices. In one or more embodiments, user input devices 1135 may also comprise an embedded additional user interface (not depicted), such as an iView<sup>TM</sup> interface, as described in commonly owned U.S. patent application Ser. 45 No. 10/943,771, entitled USER INTERFACE SYSTEM AND METHOD FOR A GAMING MACHINE, which is hereby incorporated in its entirety by reference herein. The content provided through the embedded additional user interface may include, for example, advertisements, promotion 50 notifications, useful gaming information, user rewards information and any other content that may be of interest to the

In one or more embodiments, the gaming machine 1100 also includes user card interface 1140, which is operative to 55 accept user cards containing the patron's identification information, such as the patron's ID number. User interface 1140 may be configured to accept magnetic cards, smart (chip) cards, electronic keys and the like. It will be appreciated, however, that such user information may be stored in other 60 forms or on other media for subsequent retrieval. For example, the user information can be stored on an RFID device, electronic key, or other portable memory device. Likewise, using biometrics or other techniques, user information may be retrieved from the game machine or from a 65 remote storage device via a network. In an example embodiment, the system may recognize three different levels of user

20

cards. For example, level one cards may identify frequent casino patrons, i.e., those who have a well-established history of playing at the given casino and/or whose wagering at the casino exceeds a specified threshold amount. Therefore, level one patrons will be entitled to the greatest degree of service, various promotions and rewards from the casino since they have met or exceeded a game threshold. The level two cards may identify patrons who frequent the casino, but whose spending at the casino is not as extensive as those of the level one card holders. Lastly, the level three cards may identify new casino patrons, i.e., those who do not yet have a consistent history of playing at the given casino. The degree of service, promotions and rewards offered to the level two and level three card holders likely will differ from that offered to the level one card holders, as will be described in a greater detail hereinbelow. The gaming system may be configured to recognize fewer or greater numbers of card levels, and that promotions and/or credits associated with each card level may differ

In one or more embodiments, gaming machine 1100 includes one or more peripheral devices 1145. For example, peripheral devices 1145 may include a player identification device, such as a magnetic card reader that accepts a player-identification card issued by the casino. Peripheral devices 1145 may also include a credit receiving device, such as a coin acceptor, a bill acceptor, a ticket reader, and a card reader, which may be used for placing wagers. The bill acceptor and the ticket reader may be combined into a single unit. The card reader may, for example, accept magnetic cards, such as credit cards, debit cards, and smart (chip) cards coded, i.e., cards loaded with credits or that designate an account for use via the gaming machine 1100.

According to the methodology of various example embodiments, a patron may insert a player card to provide identification information to gaming machine 1100. A player-centric rewards process, such as disclosed above, may be implemented through a player-centric rewards program stored on permanent storage accessible by the game processor or other local processor, such as a processor connected to a Bally iView or similar unit, and activated by a signal from the card reader. The player-centric rewards program may be a program or programs that may implement the process described by FIG. 1-10 through execution by processor 1110 on the motherboard or by a processor on the user interface board of gaming machine 1100.

The information from the card reader may be processed through a subroutine to determine player eligibility for player-centric rewards. If the player is determined to be eligible, then the program may provide a display of a main bonus game panel on player console 101 which may be integrated as part of the display 1139. The program may accumulate player points based on play of the base game, such as may be displayed on display 1130, or receive the player point information from another processor, such as game processor 1110, a GTM processor, or an external processor such as a server processor. As the player reaches pre-determined thresholds, the bonus game may be selected by the player and the game process may proceed as described above with regards to FIG. **1-10**. In accordance with the program processing, the patron player level may be determined based on the current and/or previous gaming sessions, a set of potential prizes or prize levels may be determined for which the patron's player level is eligible, and the potential awards for the bonus game may be determined based on the achieved player level. In an alternative embodiment, the patron's player level may be identified at the beginning of play and the potential bonus game awards may be determined for which the patron's player level

is eligible, gaming machine 1100 may display a message viewable by patron showing the reward level for which the patron is eligible. Gaming machine 1100 may also provide encouragement to the patron to win an award and achieving higher award levels by displaying entertaining video images 5 and/or providing audible messages, such as cheerleaders making a 'GO' cheer and/or displaying a fireworks display when pre-programmed threshold levels of play are met by a player.

Upon determining a reward level that is to be offered to the 10 patron, then an instruction from the player-centric award program may direct the processor to transmit a notification to the patron, such as by displaying an informational message on display 1130 or 1139 advising the patron that he has qualified for an award level and providing the patron with one or more 15 options for responding to the notification, such as that the player may have accumulated sufficient points to play a bonus game or encouraging the player to play additionally in order to achieve the needed player point level or to increase the player's reward level. Thereafter, the player may view display 20 1139 and make selections as to a bonus game as previously described with respect to FIG. 1-10. When the patron completes play, as by removing the player card from the card reader, then the player points may be stored so that the player may add to the player points during a future session.

In one or more example alternative embodiments, a player's player points, wager amounts per line, and denomination wagered may be stored in temporary storage, such as by example one or more registers of a game microprocessor, a player interface microprocessor, digital signal processor, or 30 controller associated with a player interface such as a Bally iView, or a processor associated with a Bally GMU or GTM which may be communicatively connected to the game motherboard and the player interface. Alternatively, the temporary storage may comprise an onboard (motherboard or daughter 35 board) conventional memory, such as random access memory (RAM), or, an off-board connected conventional memory, such as a conventional hard-drive, or, a connected printed circuit board with a conventional processor, controller, and/or memory. The temporary storage values may be utilized to 40 determine thresholds achieved and/or rewards level of an eligible patron during a gaming session. The respective processor controlling the temporary storage location may accumulate player points based on the number of credits wagered in accordance with a player reward program, such as one 45 which may include an instruction set to implement a type of player-centric award process as described above with respect to FIG. 1-10. After each play, the player points and other player-centric data may be used to evaluate whether a threshold has been met or whether a reward level has changed in 50 accordance with the programmed player-centric award procedure executed by game processor. When the player points either equal or exceed the required threshold to play a selected bonus game, then the patron may then play the bonus game and vie for one or more of the potential player awards. The 55 programmed player-centric award procedure may then initiate a subroutine to play the game and determine an award to be offered to the player. The player point will be deducted from the player's account and the player may again begin accumulating player points for the next bonus game oppor- 60 tunity. Once the processor determines the award to be offered, then the procedure instruction set may include an instruction for the game processor to send an award notification to the patron through, by example, display 1130 or display 1139, or by printing a voucher redeemable at one of the operator 65 facilities providing patron services. In the event of a display notification, the patron may by example be provided the

option of having a redeemable voucher printed or, in the case of a cash award, of having credits uploaded onto the credit meter for further play on gaming machine 1100. Alternatively, the game processor may cause an electronic award record to be created and transmitted to a data location associable with and accessible on behalf of the patron. Such a data location may be a permanent storage connected to the gaming machine or may be a memory stick or magnetic strip connected to the patron's player card. In the case of records being stored on a patron's player card, a patron may access the award by utilizing a machine readable device for dispensing rewards or by presenting the patron's player card to an operator's representative, such as at a cashier's cage.

22

In one or more alternative embodiments, a player's accumulated player points may be obtained from information stored or machine readably inscribed on or about patron's player card through the use of user card interface 1140 which may have a receptacle to receive player cards or may have a scanner enabling a proximity scan of the information on the patron's player card. The patron's player card may contain the information such as through the use of a memory strip. In such cases, user card interface may have a read-write capability to enable writing the ending state for the player points and/or reward levels at the time the patron concludes play on 25 a given gaming session. Thus, a patron may play different gaming machines and play at different times while retaining the state of the patron's player points and rewards level and being able to continue to accumulate player points during each gaming session without losing the totals and levels reached from the prior session.

Alternatively, when the patron completes play at a given gaming machine, as by removing the player card from the gaming machine card reader, then the player points and/or rewards level may be reset to their zero or initial value. In other words, there is no retained state that is saved at the end of a gaming session for the purpose of bonus game eligibility. Also, the player points will be re-initialized after each instance where the patron reaches the threshold to play a bonus game and the player determines to play the bonus.

Referring to FIG. 12A, a simple block diagram of rewards server 1250 connecting over network 1206 to representative example gaming machine 1100 is shown. Processing engine 1255 may comprise a conventional personal computer, such as an Intel or AMD microprocessor-based computer, or, any other conventionally available computers capable of performing general purpose computing and gaming specific applications, such as Dell, Sun Microsystems or IBM computers. Databases, such as databases 1260, 1265, may comprise one or more conventional hard drives or other storage media for storing patron records which may be written, updated, and accessed through processing engine 1255, and, for storing programs executable by processing engine 1255. The stored programs may include one or more procedures, subroutines, or sets of coding for performing or enabling player-centric rewards processing such as are outlined in the description of FIG. 1-10. For connecting the various devices, such as servers at the back-end and gaming machines 1100 at the front end, network fabric 1206 may include, but is not limited to, an IP-based local area network backbone, such as Ethernet. As may be appreciated, other functionally comparable network backbones may be utilized.

For instance, in an example system such as is shown in FIG. 12A, gaming machine 1100 may utilize network interface 1125 to connect with rewards server 1250 through network 1206. A player card connectable through user card interface 1140 to gaming machine 1100 may contain sufficient information which when read such as by user card interface 1140

may be used to identify a player at gaming machine 1100 either directly from the information stored on the card and/or by transmitting player card identification information to query a network-connected server and database containing player records such as rewards server 1250 or a separate 5 player tracking server (not shown) and accessing a patron's player records remotely. Once the patron's records have been accessed, a query may be sent to rewards server 1250 either from gaming machine 1100, a player tracking server, a host computer connected to various servers connected to the network, or other conventional network communicating device inquiring whether the patron is eligible to receive a playercentric reward, such as a bonus game. Responsive to the query, rewards server 1250 may transmit a patron reward message to gaming machine 1100 which may cause a mes- 15 sage and/or video to be displayed for viewing by the patron on either an iView-type display, a main display, or other information medium, for example a speaker, apprising the patron of an available reward, possibility of a reward based on continued play, and/or providing an entertaining audio and/or 20 video transmission.

In one example embodiment, the patron's player records including current player points and reward level may be downloaded to gaming machine 1100 from rewards server 1250, a player tracking server (not shown), or some other 25 networked computer and/or database. As the patron proceeds to play, the player points and/or rewards level may be incremented or decremented as discussed more fully above until the player points matches or exceeds the threshold required to play the selected bonus game, at which point, the patron may become eligible for a player-centric award as discussed more fully above. As also discussed above, the patron's information may be utilized to compare against possible player-centric rewards, such as a bonus game, to determine the patron's eligibility. In another embodiment, the player points and/or 35 rewards level may be maintained and updated on a server, such that as a patron plays, information is sent to the server concerning each play and the player points and rewards level are incremented or decremented in accordance with a procedure such as is shown and discussed more fully above with 40 reference to FIG. 1-10.

In the case of a network-connected player database and/or server accessible by one or more gaming machines 1100 as through network interface 1125 over network 1206, an operator may identify and rate players, either through direct data 45 input or conventional software designed to perform the identification and rating functions on a host computer or player tracking server based upon play over a period of time. Based upon the player rating, a procedure may be implemented as with a computer module executed by rewards server process- 50 ing engine 1255 that associates ratings of players with operator determined tiered player levels and according to the tiered player levels establishes eligibility for player-centric rewards as discussed above. The eligibility information may by example be stored according to player tier levels or on an 55 individual player basis, in a player tracking database which may be updated either in real-time or on a periodic basis through the player tracking server. When a player inserts a player card or otherwise identifies themself, a gaming machine may access and utilize the information stored on the 60 networked system to determine the eligibility of a player for player-centric rewards. In the case where the player-centric rewards bonus program resides on the gaming machine, then it may begin execution upon determining that the player at the gaming machine is eligible and requests to play the game.

Alternatively, the player-centric rewards bonus program may reside on a server, such as rewards server 1250, remote

24

from gaming machine 1100. In which case, gaming machine 1100 may simply provide the incrementing and comparison functions, and transmit a message to the server when the threshold is met for an award to be offered to a patron. For instance, when a player is identified at a gaming machine as eligible for player-centric rewards, then the player-centric rewards bonus program may begin executing such as through processing engine 1255. The instruction set may include sending a message to gaming machine 300 to set and increment a player point counter in accordance with play by the eligible player and to send a message to the server, for example, when the player points reach or exceed one or more thresholds associated with the bonus game.

In another alternative, the gaming machine may provide game play information on a real-time basis to the server which may perform the incrementing and comparison functions, as well as the rewards processing. Upon the server executing a bonus game and determining an award to be offered, the server may create and store a record which may be associated with the patron's player information and may also send a message to gaming machine 1100 to notify a patron of the award offer. In the case of an award, a patron may be required to make a collect request as by pressing a 'collect' button or key and/or by entering a personal identification number (PIN). Alternatively, in each case discussed above, an award may simply be automatically credited to gaming machine 1100 without any further action required by the patron. Conditions may or may not be included with an award or award offer, such as that the patron utilize or redeem the award within a period of time which may be determined by an operator.

Continuing to refer to FIG. 12A, in one or more embodiments, user input devices 1235 may include a processor, memory, and associated components as may be implemented on a printed circuit board and the player points and reward level of a player may be received by this circuitry and related software for decrementing or incrementing as the case may be upon each play by the patron. In these example implementations, the wager information may be passed from microprocessor 1110 or another processor with access to wagering information, in accordance with an instruction from the processor in order that the player points and/or rewards level be correctly adjusted.

In one or more example embodiments, a game monitoring processor unit, such as a Bally game monitoring unit (GMU), may be implemented separate from microprocessor 1110 and the processor that may be included with user input devices 1135, such as Bally's iView, but may be connected to both for receipt of gaming information and player information, respectively. In these example implementations, the player points and/or rewards level may be maintained with the game monitoring processor unit and the wager information will be passed to it from or in accordance with an instruction from microprocessor 1110.

In each of the examples described above, the player points and/or rewards level may be incremented or decremented by a gaming and/or one or more related processors incorporating programming to effect steps, such as in accordance with the processes described by example with respect to FIG. 1-10. When the pre-determined number of plays is reached by the patron then a signal may be sent to display 1139 (FIG. 11B) (incorporated with user input devices 1135) and a celebratory show may be presented to the patron from a memory (which may be part of user input devices 1135 or otherwise stored on gaming machine 1100) to apprise the patron that the patron is eligible for an award. In the case, where gaming machine 1100 is not network connected, then the bonus game program

may be initiated to determine whether the player wins and what award the patron may receive, such as player points and/or cash awards.

Continuing to refer to FIG. 12A, rewards server 1250 includes processing engine 1255 which may communica- 5 tively connect to sweepstake database 1260 and birthday database 1265. As shown, gaming machine 1100 may include network interface 1125, such as one or more conventional network PCMCIA cards or a Bally ACSC NT-board, GMU, or GTM, to facilitate IP-based or address-based communication of some form with other networked devices, such as the rewards server 1250 and the like. Through the network, microprocessor 1110 may communicate with rewards server 1250 to facilitate execution of various rewards transactions. In one or more embodiments, the network interface 1125 may 15 be used to download one or more gaming presentations or other software and/or data from the gaming server. To facilitate placement of wagers using a credit or debit card through a credit card reader (not shown) that may be connected to gaming machine 1100 as by example through user input 20 1215, slot marketing system (SMS) 1217, and casino mandevices 1135, user card interface 1140, and/or peripheral devices 1145, network interface 1125 may be used to communicate with a banking server (not depicted), which connects to a financial institution that has issued the financial card, conduct a credit card authentication process, and then 25 credit the requested amount to gaming machine 1100. The accounting server issues credit confirmation to gaming machine 1100, which in turn allows the casino patron to place the desired wager on the machine and to proceed with the game. In a progressive gaming network environment, where 30 several gaming machines 1100 compete for a single jackpot prize, the network interface 1125 may be used to communicate with other gaming machines 1100, as well as with a game monitoring server (not depicted) to synchronize a jackpot value and other parameters.

Referring to FIG. 12B, networked gaming system 1201 is shown in accordance with one or more aspects of the invention wherein banks 1203 of gaming machines 1100 are connected to router 1205, router 1205 connects to router server player-centric rewards programming enabling the executing of slot process jobs 1211. By example, networked gaming system 1201 may be conventionally architected such as with conventional Bally gaming machines and a conventionally available ACSC SMS and CMS products implemented with 45 the IBM iSeries products with modifications to selected portions of the player tracking software to incorporate the playercentric rewards such as those described above with respect to FIG. 1-10.

Routers 1205, such as a conventionally available Bally 50 ACSC Game Net device, may be programmed to consolidate gaming data and other communications from respective bank 1203 of gaming machines 1100 into packets and to transmit the packets according to the routers programming to game net server 1207 and/or pre-determined portions of multiple back- 55 end systems 1209. Routers 1205 may receive a notification of each transaction at their respective banks 1203, modify the information prior to transmission to router server 1207, such as a conventionally available Bally ACSC Game Net server, and selected portions of multiple backend subsystems 1209 according to router 1205 programming. For example, when a patron inserts the patron's card in a card reader of gaming machine 1100, the information is read from the player card and transmitted to router 1205 which in turn sends the player information to selected portions of multiple backend sub- 65 systems 1209 and a query may be made whether the patron is eligible for a player-centric reward, such as a bonus game.

26

Additionally, upon a patron playing sufficiently to match the bonus game's requisite player points, router 1205 connected to the respective player's gaming machine 1100 may be programmed to transmit a message to a rewards server, such as shown in FIG. 12A, which may be implemented as part of multiple backend subsystems 1209.

Multiple backend systems 1209, such as may be conventionally architected using Bally's ACSC SMS and CMS iSeries-based products, may be programmed to process playercentric slot process jobs 1211. The iSeries-based products implemented in the Bally architecture may include i5 server 1213, which are originally manufactured by IBM and programmed by Bally to perform networked gaming systems functions. Amongst the programming that may be implemented may be player-centric rewards programming to perform the steps described in the figures and description herein. To accomplish various networked gaming systems functions including player-centric rewards processing, multiple backend systems 1209 may include slot accounting system (SLT) agement and accounting system (CMS) 41219. Each of the respective systems may be under the centralized control of a host computer the function of which may be performed by i5 server 1213. Additionally the respective functions of systems 1215, 1217, 1219 may be implemented through programming of separate servers or a single server such i5 server 1213. A workstation (not shown) may connect to i5 server 1213 and may include a conventional display, keyboard, and mouse enabling an operator (user) to run respective programs associated with systems 1215, 1217, 1219 and modify the operation of the respective systems through the selection of various options such as player-centric rewards criteria. For example, upon a patron inserting a player card into a gaming machine 1100 connected to networked gaming system 1201, a message may be sent to i5 server 1213 that contains patron information and initiates one or more slot process jobs 1211 according to the programming of i5 server 1213 to determine whether the patron is eligible to play a bonus game.

Programming of i5 series 1213 may be triggered upon 1207 and multiple backend subsystems 1209 including 40 receipt of the patron information that includes sending selected patron information and a query to slot marketing system 1217. In parallel, series 1213 may send patron and gaming machine 1100 identifying information and a transaction report to slot accounting system 1215. On determination of a patron's eligibility for a birthday reward, SMS 1217 may send a message to CMS 1219 to make a record of the transaction and a message may also be sent from multiple backend systems 1209 to gaming machine 1100 notifying the patron of the birthday reward. Similarly, slot process jobs 1211 may be initiated on i5 series 1213 upon a patron meeting the playing criteria for eligibility for one or more player-centric rewards, such as Bally Live Rewards.

> One or more aspects are described in the following example discussion as may relate to the system and rewards shown in the figures:

What is Live Rewards?

Live Rewards lets you offer carded players exciting bonus games through your existing iVIEW-equipped slot machines. This remarkable advancement in technology creates a thrilling gaming experience designed specifically to increase wagering activity. Once a Player's Club card is inserted into the slot machine, each bet on the base game brings the player closer to earning bonus game play. Once the minimum game play requirements have been met, the bonus game either starts automatically or the player can press a button to start the game. Bonus game winnings can be awarded in cash (to be transferred to the base game through an electronic funds

transfer) or in bonus points. Live Rewards bonus games require base game play; they cannot be played directly. Live Rewards uses high-resolution, animated graphics, quality sound, and a touch-screen display to provide players with bonus game content. This content is managed by the Live 5 Rewards Server (LRS) through the Windows-based Live Rewards management application. There are currently two bonus games available through Live Rewards: Blue Spot Bingo and Payday Poker.

About the Player Interface

The Live Rewards user interface runs on the iVIEW display, allowing customers to play bonus games and transfer their cash winnings to the base game. Players can choose from two Live Rewards bonus games: Blue Spot Bingo and Payday Poker.

Play Point and Game Play Indicators

Live Rewards has two distinct counters that determine the player's bonus game experience: play points and game start threshold.

Play points are used to determine the pay table used for the 20 bonus game—the more play points a player accrues, the higher the payout amount (equal to one cent for determining prizes on bonus game pay tables) of the corresponding pay table. A play point is defined as one cent of every dollar bet at the base game. This is a pre-set, non-configurable value that has no actual monetary value and cannot be redeemed. The rate at which a player accrues play points is determined by players club membership level and is configured through the Live Rewards Server. Players track play point accrual through the Reward Level indicator on the left-hand side of the screen. 30 As play points are accrued and the reward level increments, the player sees poker chips stack up. When game play begins, the number of play points used for the game is determined by the number of play points accrued minus the number of play points in the highest qualifying Pay table. The game start 35 threshold determines when a player has played enough base games to start a bonus game. For each base game played, the player earns a TC (Threshold Counter), which is depicted on the user interface as a light surrounding the selected game logo. A player earns a TC based on the number of games 40 played the time spent playing, and the maximum bet for each

What Are Play Points?

Play Points are the unit currency used by the player to play a Live Rewards game. Play points are earned based on Base 45 Game Wager times and the accrual rate set for each Player's Club level. Play Points have no redeemable value, but are considered to be worth \$0.01 for the purpose of deriving the Live Rewards game Pay tables. You cannot adjust this value. Play points are restricted to the play of Live Rewards games 50 and are not cashable. Play Points earned on the iVIEW are transferred to the player's session account on the LRS before any Live Rewards game begins and at player card removal. Play Points are decremented from the player's server account when a Live Rewards game is played.

The amount of Play Points decremented is determined by the amount of Play Point accumulated when the player has played a number of games equal to the Live Rewards Game Start Threshold. The number of Play Points determine, which Pay Table the player receives with the Pay Table that takes the 60 maximum number of earned Play Points being automatically selected. Play Points are awarded only by play of base game and are not awarded by any other means.

The number of Play Points awarded is equal to the product of the following equation:

=[Base Game Wager (in dollars)×Accrual Rate (set by BLRS)]/[Value of Play Points (in dollars)]

28

Client Side processing of Play Points (PP) and Threshold counters (TC's):

- 1—On card-in the client may register the player's card number to the iVIEW and receive the values of the reserve account for display purposes.
- $2\mathrm{--As}$  the player plays the base game PP and TC's may accrue on the client.
- 3—At Card-out, Recovery start-up, and before a Begin Game is sent to the LIVE REWARDS SERVER all PP and TC accrued on the iVIEW are transferred to the LIVE REWARDS SERVER.
- 4—When the iVIEW has determined the player has accrued enough TC and PP for a game (combined total of reserve account and remaining PP's and TC's on iVIEW) the iVIEW allows the player the option to start a game. If the player elects to start a game:
  - a—All PP's and TC's are transferred via 3-stage commit to LIVE REWARDS SERVER.
  - b—Current totals in reserve account are returned to iVIEW.
  - c—If total is still acceptable to starting a game iVIEW sends a Begin Game message to LIVE REWARDS SERVER that includes the number of PP's and TC's to be used.
  - d—Based on server setting send a –1 for TC's to be used may use them all.
  - e—LIVE REWARDS SERVER sends a response back to the iVIEW that includes a History ID number (HID) and a success or Fail.
  - f—If Success is returned iVIEW proceeds to play the system game.
  - g—At game conclusion a End Game messages sent to LIVE REWARDS SERVER Via 2 stage commit (stage 1 of the 3 stages was Begin Game). The end game contains the value of any winnings the player won.
  - h—Winnings in the End Game are stored in the player's reserve account.
  - 5—Bonus Points (BP's) are immediately transferred to CMS from LIVE REWARDS SERVER.
  - 6—Cash winnings in the reserve account are shown to the player and accessible after Pin-in for AFT transfer from LIVE REWARDS SERVER to the base game.
  - 7—On recovery any PP's, TC's, BP's and cash are transferred to LIVE REWARDS SERVER.
  - 8—On recovery, If a Begin Game was sent and an End game was not completed the End game is sent with a recovery status and the LIVE REWARDS SERVER rolls back the PP's and TC's used for the incomplete game are rolled back into the player's account and any reserve account for this card#/iVIEW ID is also rolled back into the player's account.
  - 9—If the player is playing slowly and a Begin Game, End Game, or card out has not occurred in (Heartbeat time length—1 minute) the iVIEW sends a heartbeat to the LIVE REWARDS SERVER to keep the player's reserve account reserved.

Referring generally to FIG. 13-22, authorized casino employees can access Live Rewards information from the iVIEW, as appropriate. The Live Rewards employee functions allow employees to perform maintenance and trouble-shooting tasks from the slot floor. From the iVIEW, an employee can:

view information on the currently installed Live Rewards program, iVIEW and GMU.

view iVIEW settings as defined under Global Settings on 65 the Live Rewards Server.

view individual game play, withdrawal and hand pay records of transactions that occurred at the iVIEW.

clear the iVIEW device's Non-Volatile Random Access Memory (NV-RAM).

remove the iVIEW from service ("un-register").

The chart below refers to fields shown in FIG. **20** and includes report data available at the employee interface at the gaming device:

| Field                | Description   |  |  |  |
|----------------------|---|--|--|--|
| Buckets Spent        | Type and amount of reward for the specified transaction. For example, 100 P.P would be \$100.00 in Play Points. Additional reward, or bucket, types are: Threshold  |  |  |  |
| Closed By            | Counter, Bonus Points, and Cash<br>Identification number of the employee who completed<br>the Live Rewards hand pay on the slot machine.  |  |  |  |
| Closed<br>Date Time  | Date and time hand pay was cleared from the slot machine.   |  |  |  |
| Created<br>Date Time | Date and time slot machine went into hand pay mode.   |  |  |  |
| End Date Time        | Date and time specified session is terminated. End date/time format: DD/MM/YYYY HH/MM/SS (AM or PM).  |  |  |  |
| Game                 | Name of Live Rewards game played during the specified transaction.  |  |  |  |
| Hand pay Type        | Reason game has gone to a hand pay: 1 - Winnings exceed jurisdictional limit; 2 - Unable to transfer winnings to the base game.   |  |  |  |
| HID                  | History Identification Number. A unique sequential number generated by the system. The purpose of the HID is to track game play information, including when play started, when play ended, as well as the associated score, pay level, reward level, buckets spent, and buckets won. This information can also be viewed through the LRS. |  |  |  |
| iVIEW ID             | A unique identification code of the iVIEW device. The iVIEW ID is an alphanumeric value of 50 characters, including special characters.   |  |  |  |
| Player Card #        | Player Card Number. A unique 20-character number that is associated with a particular player.   |  |  |  |
| Prizes               | Dollar amount of the hand pay.  |  |  |  |
| Prize Value          | Dollar amount of the winnings transferred from the LRS to the game.   |  |  |  |
| Reward Level         | Name of pay table that was applied to the specified game.   |  |  |  |
| Score                | The result of the last played game and the current pay level number.  |  |  |  |
| Session ID           | Identification code that is generated for by the system for<br>every session. A session begins at player card in and ends<br>at player card out.  |  |  |  |
| Session Trans#       | Transaction number generated by the iVIEW for each withdrawal and deposit that occurs between player card in and player card out.   |  |  |  |
| Start Date           | Date and time specified session is created. Start date/time   |  |  |  |
| Time                 | format: DD/MM/YYYY HH/MM/SS (AM or PM).   |  |  |  |
| Status               | For a hand pay status, indicates hand pay has been Completed, is still Open, or has been Cancelled. For a withdrawal status, indicates withdrawal is pending (Open), has been completed (Success) or could not be completed (Failed).   |  |  |  |
| Trans Date<br>Time   | Date and time of the transaction when it was created. The date is in DD/MM/YYYY   |  |  |  |
| Winnings             | format, and the time in HH/MM/SS AM or PM format.  Dollar amount won during the specified transaction.  |  |  |  |

Referring to FIG. 13, an Operator Menu panel 1700 is shown such as may be displayed on an operator interface unit that may be integrated as part of a player interface unit, such as a Bally iView, connected to a gaming machine. The operator interface unit may include the Operator Menu panel 1700 that may be displayed on a touch-sensitive display and a card reader that may receive and read an operator card. Upon insertion of an operator card by a casino operator technician, the operator menu panel 1700 may be displayed. To gain access to the functionality of the menu panel 1700, the technician may enter a pin number and demonstrate that the person with the card is authorized to access the various menu functions. As shown, a keypad is provided for entering the pin

30

number and to enter numbers associated with the various operator functions, such as 12—Hopper Fill, 13—Proactive Fill, 05-Employee Service Log, 20—View meters, and various Regulatory Functions, such as 63—Tickets Log, 64—Authentication, 70—eCash Log. Additionally, there may be additional keys, such as Bally Live Rewards, About, Center, Help, and Clock. When a function key number is entered on the key pad, a function display area may provide information about the requested function as is associated with the gaming machine. For example, in the function display area where the View Meters key number has been entered, the Mode, Change, Pay, Bet, iView Loaded, iView Load meters/registers names are displayed along with information stored in the meter.

15 Referring to FIG. 14, an operator Live Rewards menu panel 1702 is shown such as may be displayed on an operator interface unit. The additional keys on the operator menu panel 1702 provide additional menus for obtaining additional information about the gaming machine and operating system. For example, by pressing the Live Rewards key, an operator Live Rewards menu panel 1702 may be displayed providing an operator with additional key options, such as Machine Details, Device Configurations, Reports, Unregister, Clear NvRam (Non-volatile random access memory), and Exit (to return to the operator menu panel 1700).

Referring to FIG. 15, a Machine Details panel 1800 is shown such as may be displayed on an operator interface unit. For example, by pressing the Machine Details key on the operator Live Rewards menu panel 1702, the machine details panel 1800 may be displayed and provide information, such as iView ID (identification data), Casino ID, Asset Number, GMU (gaming management unit) ID, Client IP address, Server IP address, iView version, LRS (Connected or Unconnected), and GMU=(Registered or Unregistered). The panel 1800 may additionally provide a key for Version Details and Close (to return to the previous menu panel).

Referring to FIG. 16, a Version Details panel 1802 is shown such as may be displayed on an operator interface unit. For example, by pressing the Version Details key on the Machine

Details panel 1800, the Version Details panel 1802 may be displayed to provide the names of various components associated with the gaming machine, such as Casino Magic Version, Live Rewards Version, NV Logging Version, Payday Poker Version, and Boom Bingo Version, and the associated ID information.

Referring to FIG. 17, a Help panel 1804 is shown such as may be displayed on an operator interface unit. For example, by pressing the Help key on the Operator Menu panel 1700, various fields displayed of the associated panels may be listed 50 by name and associated description, such as Asset Number if Slot machine identification number, Casino ID//Unique 3 digit property identifier, Client IP Address//Network address of the iView, GMU ID//Unique identification number of the Game Monitoring Unit assigned by the Slot Management System (such as a Bally SMS) upon initial connection, iView ID//Unique number used to identify the iView device assigned by the manufacturer, iView version//Version of code currently installed on the iView device, LRS//Status of the Live Rewards Server (LRS) that the iView is connected or not connected, GMU=//Status of iView connection to the Game Monitoring Unite (GMU)—Connected or Not Connected, Server IP Address//Network location of the Bally Live Rewards server.

Referring to FIG. 18, a Device Configuration panel 1900 is shown such as may be displayed on an operator interface unit. For example, by pressing the Device Configuration key on the operator Live Rewards menu panel 1702, the Device Con-

figuration panel may be displayed and show the iView settings as defined under Global Settings on the Live Rewards Server. The Device Configuration panel 1900 may include Refresh and Close keys. By pressing the Refresh key the most recent settings received by the iView may be displayed.

Referring to FIG. 19, a second Help panel 1902 is shown such as may be displayed on an operator interface unit. The second Help panel 1902 may be a rollover panel associated with the first Help panel, such as with a scrolling capability, and include Field names and descriptions, such as: Auto-Play System Games//Determines whether a randomly selected Bally Live Rewards game plays automatically once the player has accrued enough play points—this setting is defined through the LRS, under Global Settings; iView SyncInterval// Defines the number of minutes between each iView synchronization with the LRS to download global settings—these settings are defined through the LRS, under Global Settings; Jurisdiction Limit//Indicates the jurisdictional limit for handpaid jackpots—this setting is defined through the LRS, under 20 Global Settings; System Game Volume for Attract Mode// Volume setting for attract movie—this setting is defined through the LRS, under Global Settings; System Game Volume Game-Volume setting for Bally Live Rewards games—this setting is defined through the LRS, under Global 25 Settings.

Referring to FIG. 20A, B, C, D, several transaction-related report panels 2000, 2002, 2004, 2006 are shown such as may be displayed on an operator interface unit. A Transaction Main panel 2000 may be displayed by pressing the Reports 30 key. The Transaction Main panel 2000 may include a Withdrawal Transactions, Hand pay Transactions, and Gameplay Transactions keys. By pressing each of the respective keys, a panel may be displayed corresponding to a Withdrawal Transactions 2002, Hand pay Transactions 2004 and Gameplay 35 Transactions panel 2006.

Referring to FIG. 21A, B, two Unregister panels 2100, 2102 are shown such as may be displayed on an operator interface unit to unregister an iView apparatus from the gaming network as for example when a gaming machine is 40 removed from the casino floor.

Referring to FIG. 22, an NV Ram clear panel 2200 is shown such as may be displayed on an operator interface unit to erase the non-volatile random access memory of a gaming machine.

Referring to FIG. 23, a Main iView display 2300 is shown such as may be displayed on a player interface unit to display a player's accumulated bonus points and a countdown for qualifying to play a reward game. The Main iView display may include Play Games, Service Request and ePromo keys. 50 Once the player qualifies, the Play Game key may allow a player to activate a reward game. FIG. 23 is a screenshot of the Player Page shown to the player after a valid player card insertion at the Player Tracking panel. The player can select ePromo (funds transfers to the gaming device), Service 55 Request, or Play Games and enter the live Rewards gaming portal on the iVIEW. If the player selects the Play Games button then they will be taken to the Live Rewards Game Console where they can select from multiple games. If the player earns enough play points and threshold counter points then they will automatically be taken from this screen and the default game will be auto-played. This is to ensure that a player gets their bonus game even if they don't touch the user interface at all. When a player exits the Live Rewards page by Pressing Player account this is the page they return to. This is the default page that a carded in player would see during their session.

32

Referring generally to FIG. **24-56**, the Live Rewards Management Application enables:

activate, control and registers iVIEW devices.

store player information related to Live Rewards.

set up the rules for accessing Live Rewards.

assign different reward criteria to different player types. control the types of winnings available to the player (cash or bonus points).

manage bonus game Pay tables.

generate reports related to Live Rewards activity.

Getting Assistance

Click Contact Info link at the bottom of any screen. The Contact Info screen may provide contact information as well as office locations worldwide for service related assistance, such as from the manufacturer.

Referring to FIG. 24, an Activate iView panel 2400 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Activate iView panel may include fields for a Casino ID, iView ID, GMU Id, Asset Number, Registered Date, Last Reported Date, and Active. Associated with each field may be data for each of the player interface units that are connected to the system. A closeup view of the panel 2402 is shown in FIG. 24A.

Activating and De-Activating iVIEW Devices

Each iVIEW may automatically register with the Live Rewards application when it boots for the first time and sends a registration message to the LRS for activation. Once the iVIEW is activated, it downloads the global settings from the LRS and updates its global settings accordingly. It is then ready to play Live Rewards games. The registration information includes base game data, identification code of Asset, iVIEW, casino and network identification code of the iVIEW device (GMU Id). The LRS requires successful registration of iVIEW prior to any game being played on the specific iVIEW. As a security measure, by default, all games may be deactivated for a specific iVIEW at initial registration and games may be enabled in the LRS for that iVIEW.

In one or more embodiments, iView devices may be separately authorized and un-authorized to play Live Rewards Games. This may be done after registering the iVIEW devices to the slot machines. Plus, the user through the Operator Control Console can also activate and de-activate all iVIEW devices in the casino floor.

The following steps outline a process that may be implemented through conventional coding on the operator control console to activate/de-activate iVIEW devices:

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Activate iVIEW. System displays the list of all iVIEW devices and its details.

Following is the list of fields and their description for the Activate iVIEW's For Live Reward Games screen:

|    | Field Name | Description  |
|----|------------|--|
| 60 | Casino Id  | A unique identification code of the casino. The Casino Id can be an alphanumeric value of 4 characters.  |
|    | iVIEW Id   | A unique identification code of the iVIEW device. The iVIEW Id can be an alphanumeric value of 50 characters including special characters.       |
| 65 | Gmu Id     | A unique network identification code of the iVIEW device. The Gmu Id can be an alphanumeric value of 32 characters including special characters. |

| Field Name    | Description  |
|---------------|--|
| Asset#        | A unique identification code of the Slot machine. The Asset# can be an alphanumeric value of 8 characters. |
| Registered    | The Registration date of the iVIEW device on the slot  |
| Date          | machine. The date is in DD/MM/YYYY format, and time in HH/MM/SS format AM or PM format.                    |
| Last Reported | The last date and time the iVIEW device connected to the   |
| Date          | LRS. The date is in DD/MM/YYYY format, and time in HH/MM/SS AM or PM format.                               |
| Active        | This checkbox allows you to activate or deactivate the iVIEW device.                                       |

STEP 2. Select/clear the Active checkbox of the required iVIEW devices which has to be activated/de-activated. or, Optionally, to search and then select, the required iVIEW devices, do the following:

A. Type any/both:

iVIEW Id in Search By iVIEW ID field.

Asset number in Asset# field.

B. Click Find.

C. Select/clear the Active checkbox of the required iVIEW devices.

STEP 3. Click Update to update the iVIEW devices according to the selection. System updates and confirms the same by displaying the message as shown below.

STEP 4. Click Activate All to activate all iVIEW devices in the casino floor. System confirms the same by displaying the message as "All iVIEW's Activated Successfully".

STEP 5. Click De-activate All to de-activate all iVIEW devices. System confirms the same by displaying the message as "All iVIEW's De-activated Successfully".

Referring to FIG. 25, an Assign Games to Player Type panel 2500 is shown such as may be displayed on an Operator 35 Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the assign games to player type panel 2502 is shown in FIG. 25A. The operator control console may comprise a conventional personal computer with coding implemented to 40 execute various processes associated with the network servers and gaming machines. The Assign Games to Player Type panel may include fields for a Select Player Type, Game ID, Game Name, Pay Table Set, Notes, Remove, and Add New Game. For each Player Type, such as Silver, Gold, Platinum, 45 the associated available games and paytables may be displayed. The Remov filed permits the operator to remove a game from a selected player type's pool of games that may be played as a rewards game.

Assigning Games to the Player Type

The Player's Club can designate up to three player types, which usually correspond to the amount the player wages in the casino (for example, Silver, Gold and Platinum). Once the Pay table sets are ready, you can assign them to the requisite Live Rewards game and to the player type.

To View Details of Currently Assigned Games

Purpose: To view details of all currently assigned games, Pay Table Sets and winnings for the particular player type.

Procedure: Follow these steps to view the currently assigned games and details of the mapped Pay Table Sets.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Assign Games to Player.

STEP 2. By default, system selects lowest level player type. However, select required Player Type from Select 65 Player Type drop-down list. System displays currently assigned games details, if any, as shown below.

34

STEP 3. Select required Pay Table Set link. System displays details of the selected Pay Table Set and its winnings as shown below.

STEP 4. Click Close to close this Pay Table Set view.

To Delete a Game

Purpose: To remove and un-assign a game from the player type.

Procedure: Follow these steps to remove the game.

STEP 1. From the Live Rewards Management menu, go to
10 Games Management submenu and select Assign Games to
Player.

STEP 2. By default, system selects lowest level player type. However, you can select required Player Type from Select Player Type drop-down list. System displays currently assigned games details, if any.

STEP 3. Click Remove Game link to move out the selected Live Reward game that is currently assigned to any player type. System displays Remove a Game section.

STEP 4. Type Reason for Removing Game (Mandatory).

STEP 5. Click Remove Game from Remove a Game section. System un-assigns and removes the game along with its game settings. It confirms the same by displaying the message as shown below. The game is then available in the LRS, so that you can use it for other player types, if needed.

STEP 6. Optionally, click Close to close Remove a Game section.

Adding Games

Procedure: Follow these steps to add a Live Reward game to the player type.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Assign Games to Player

STEP 2. By default, system selects lowest level player type. However, select required Player Type from Select Player Type drop-down list. System displays currently assigned games details, if any.

STEP 3. Click Add New Game link. System displays Adding a New Game section as shown below.

STEP 4. Select required Game Name from drop-down list. STEP 5. Select required Pay Table Set from drop-down list. You can see the same notes in Pay Table Set Notes field, that was entered while creating the selected Pay Table Set. This cannot be altered. Optionally, click View link to view the selected Pay Table's structure and its details.

STEP 6. Type Reason for Adding Game (May be mandatory).

STEP 7. Click Add Game. System assigns the selected player type to the selected Live Reward game and confirms the same by displaying a confirmation message.

STEP 8. Optionally, click Close to close the Adding a New Game section.

Referring generally, to FIG. 26, 27, 29, a Player Management menu is shown on the left of each of the respective panels. The Player Management menu enables a user to select which of the panels and options that are to be accessed. The Player Management menu is all about the Players. You can access/play Live Rewards games only if you have a Player Card. A Player Card is a magnetic striped card that identifies the player. This is encoded with privileges and benefits. When inserted into the card reader, the card is read by the playertracking system. The server identifies the player, maintains a record of the games played and alerts the player to a rating system. Once the player inserts the card into the card reader, the LRS creates a session for the player after validating the player's card number with the casino management system. When the player takes out the card, the session is closed. In casinos same player cards are sometimes used by multiple

players. Therefore, once a session is closed, the corresponding player's balances are credited to the main account. The player gets back the balances the next time the card is inserted in any other slot machine.

For example: Two players have used the same card for 5 playing Live Rewards games. Therefore, only one account is maintained in the LRS for that player card. For this reason, the LRS creates a separate session for each of these players. All game play details and winnings go to their respective sessions and once the card is removed, all balances are updated in the main account.

In one or more embodiments, at any given point of time, only one Pay table set is mapped to the Live Rewards games in accordance to the player type. There can be any number of player types in the casino that is maintained in their CMS. Live Rewards game features like global settings, start rules, and Pay Table Sets are delineated based on these player types.

Inside the Player Management section of the Live rewards server administration pages is the following feature:

Viewing Active Player Sessions

Purpose: To view the active session details of players (status of the session may be 'Open'). This happens due to any flaw in the iVIEW devices or the slot machines breaking the communication with Live Reward Server. Plus, you can do 25 field to view the session details of a particular player. the following:

View players main account and players session balances.

Cancel pending game play.

Cancel pending hand pay.

Suspend the session.

Close the session.

Procedure: Follow these steps to view active player session

STEP 1. From the Live Rewards Management menu, go to  $_{35}$ Player Management submenu and select Active Player Sessions. System displays list of all player sessions whose status is 'open'. Following is the list of fields, column headers and their description for the Active Player Sessions screen.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card# field to view the session details of a particular player.

B. Click Find or press Enter. System retrieves the details of the specified player card number alone.

Cancel Pending Game Play

If any discrepancy occurs in the iVIEW device while a player is playing Live Rewards game, that is, before the game ends, the player can contact a casino employee to cancel the game play. On canceling, the player gets back the play points into the main account. There can be only one pending game 50 for any iVIEW device and a session.

Purpose: To cancel the pending game play and restore play points spent on playing that game.

Procedure: Follow these steps to cancel the pending game

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Active Player Sessions. System displays list of all the player sessions whose status is 'open'.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card# field to view the session details of a particular player.

B. Click Find or press Enter. System retrieves the details of the specified player card number alone.

STEP 3. Select required session by clicking Choose link. 65 System displays the selected session's details in Session Details display section. If the selected session has any pend36

ing game play, system displays corresponding transaction number in Pending Game play field, else system displays '0'

Cancel Pending Hand Pay

The canceling of the hand pay may be helpful for the following reasons:

If the iVIEW device is not functioning, when the casino staff collects the IRS form from the player and commits the tax amount.

If the LRS finds some other player card in the iVIEW device other than the players who triggered the hand pay. On informing the appropriate reasons by the player, the casino employee cancels the hand pay and commits the amount collected. There can be only one pending hand pay for any iVIEW device and a session.

Purpose: To cancel a pending hand pay and.

Procedure: Follow these steps to cancel the pending hand

STEP 1. From the Live Rewards Management menu, go to 20 Player Management submenu and select Active Player Sessions. System displays list of all the player sessions whose status is 'open'.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card#

B. Click Find or press Enter. System retrieves the details of the specified player card number alone.

STEP 3. Select required session by clicking Choose link. System displays the selected session's details in Session 30 Details display section. If the selected session has any pending hand pay, system displays corresponding transaction number in Pending hand pay field, else system displays '0' (zero).

Handling Pending Withdrawal

If there occurs any discrepancy in the iVIEW devices during transferring the winnings from the iVIEW devices, or if the transaction fails or locked due to some reasons, player can contact casino employee for assistance. The LRS indicates the identification and amount of transaction in Pending Withdrawal# and Transaction Amount fields respectively. The casino employee enters the amount that got transferred in Commit field.

Purpose: To commit the transaction amount which is pending and deposit the balance amount to the player's account.

Procedure: Follow these steps to commit transaction amount.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Active Player Sessions. System displays list of all the player sessions whose status is 'open'.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card# field to view the session details of a particular player.

B. Click Find or press Enter. System retrieves the details of 55 the specified player card number alone.

STEP 3. Select required session by clicking Choose link. System displays the selected session's details in Session Details display section.

STEP 4. Type transferred amount in Commit\_Amount 60 field. The employee finds out the amount transferred by using the slot machine's internal records. NOTE: If the selected session has any pending transaction, system displays corresponding transaction identifier, else system displays '0' (zero).

Suspend Player Session

The Live Rewards management application provides a Session job monitor that runs all time to monitor the func-

tioning of all iVIEW devices across the casino floor. If there are any devices that are not communicating with the LRS, it further detects for any open sessions and suspends those sessions. This session job monitor is an internal service which runs all time and checks for fault in the iVIEW devices every 5 fifteen minutes.

Purpose: To suspend the player session manually, whose status is 'open', if any discrepancy or flaw arises in the iVIEW devices. System credits the winnings of the player to their main account.

Procedure: Follow these steps to suspend the active player session.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Active Player Sessions. System displays list of all the player sessions whose 15 status is 'open'.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card# field to view the session details of a particular player.

B. Click Find or press Enter. System retrieves the details of 20 the specified player card number alone.

STEP 3. Select required session by clicking Choose link. System displays Session Details section. NOTE: If the player card gets struck in the iVIEW device and if the player does not report to the cage, the session job monitor detects this fault 25 and suspends the corresponding player session that is opened. Then the session balances go to the player main account. Player gets the balances on inserting the card into another device.

Close Active Player Session

When the player finds that there is discrepancy in the functioning of iVIEW device, that is, when the iVIEW crashes, the player can collect the cash winnings from cage. The casino employee inspects the transaction and session corresponding to the player card number and, manually 35 in the banned player list. closes the corresponding suspended transaction and sessions, end the game. Then the winnings are debited to the player's main account.

Purpose: To close the suspended player sessions.

Procedure: Follow these steps to close the player session. 40 STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Active Player Sessions. System displays list of all the player sessions whose status is 'open'.

STEP 2. Optionally, do the following:

A. Type Player Card Number in Search By Player Card# field to view the session details of a particular player.

B. Click Find or press Enter. System retrieves the details of the specified player card number alone.

System displays Session Details section.

STEP 4. Click Close Session. System suspends the session and you see the confirmation message as 'Session Closed'. NOTE: Any withdrawals, open games, and hand pays may be cleared before closing a session.

Referring to FIG. 26, a Banned Players panel 2600 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the banned players panel 2602 is shown in FIG. 26A. The opera- 60 tor control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Banned Players panel may include fields for a Search by Player Card Number, Add New Player, Player Card 65 Number, Player Name, Player Type, Reason for adding in Banned List. The Add New Player field provides fields for

38

entering the player information of a banned player not previously listed in the associated database.

Forbidding Players

If the player is violating or abusing any casino policies, promotions or privileges according to the agreement laid between the casino and the Player, then a database may be created to list banned players from playing Live Rewards games. Any user with player management permissions can ban the player. If a player inserts a player card then the Live Rewards server is checked for a banned player flag being set. If so then the player is blocked from playing Live Rewards games entirely.

Procedure: Follow these steps to ban the player.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Banned Players. System displays the list of all banned players.

STEP 2. Click Add New Player link. System displays a section.

STEP 3. Type Player Card Number (May be mandatory).

STEP 4. Click Find. System displays Player Name and Player Type in the respective fields. This allows the user to verify that the correct player is being banned.

STEP 5. Type reason for banning the player in Reason for adding in Banned List field (May be mandatory).

STEP 6. Click Save. System saves the record after validating the specified Player Card Number and displays the confirmation message as shown below. If the specified Player Card Number is not found in the LRS application which is connected to the casino's CMS/CMP application, then the system displays an error message as shown below.

STEP 7. Optionally, click Close to close the Add New Player section.

Querying a Banned Player

Procedure: Follow these steps to find a player and its details

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Banned Players. System displays the list of all banned players.

STEP 2. Type Player Card Number in Search By Player Card# (This may be a mandatory input).

STEP 3. Click Find. System displays the details of the banned player as shown below.

Permitting the Prohibited Players

Purpose: To allow the banned players to play the Live 45 Rewards games. Any user (casino staff) logged in to the application can do this task.

Procedure: Follow these steps to remove the player from banned list.

STEP 1. From the Live Rewards Management menu, go to STEP 3. Select required session by clicking Choose link. 50 Player Management submenu and select Banned Players.

> STEP 2. Type Player Card Number in Search By Player Card# (This may be a mandatory input).

> STEP 3. Click Find. System displays the details of the banned player in grids.

> STEP 4. Click Remove Player link. System displays the selected Player Card# in a section.

> STEP 5. Type reason for removing the player from the list of banned players in Reason for deleting from Banned List field (This may be a mandatory input).

STEP 6. Click Remove Player. System removes the player from the banned list and displays the confirmation message as shown below.

STEP 7. Optionally, click Close to close the Remove Player section.

Referring to FIG. 27, a Clear Player PIN Lockout panel 2700 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to

39

a server network, such as a Bally SMS & CMS. FIG. 27A illustrates a closeup view of panel 2710. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Clear 5 Player PIN Lockout panel may include fields for a Enter Player Card Number, Player Name, and Clear PIN Lock. The Enter Player Card Number field provides an input area for entering a card number and a Find field for sending a request to search the database for the Player Name and Player Type. 10 Upon locating the player, the Clear PIN Lock field may be activated to clear the player lockout.

Clear PIN Lockout

Purpose: If the player enters an incorrect PIN multiple times and exceeds the limit set in the global settings, the 15 player's account is locked for a time period. With the "Clear PIN Lockout" screen, you can unlock the player's account by allowing them to try again.

Procedure: Follow these steps to unlock the player's account.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Clear PIN Lockout. STEP 2. Type player card number in Enter Player Card#

field (May be mandatory).

STEP 3. Click Find. System displays Player Name and 25 Player Type in the respective fields If the specified Player's account is locked, only then the Clear PIN Lock is enabled. Plus, system displays an notification message as "Player Not Locked".

STEP 4. Click Clear PIN Lock. System unlocks the specified player's account and displays a confirmation message.

Referring to FIG. 28, a Copy Pay Table Sets panel 2800 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the 35 pay table sets panel 2802 is shown in FIG. 28A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Copy Pay Table Sets panel may include fields for a 40 Choose, Game ID, Game Name, Player Type, Pay Table Set Name, Notes, Copy, View and a New Pay Table Set area including fields for Pay Table Set Name, Player Type, Notes. By selecting the Choose field the associated Pay Table Set Name may populate the New Pay Table Set. The Player Type 45 may be selected for the New Pay Table Set.

Copying Pay Table Sets

Purpose: To copy the existing Pay table set as a template, so you can alter and assign it according to your current requirements.

Procedure: Follow these steps to copy Pay table set.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Copy Pay Table Sets. The system displays all the existing Pay table sets. (Following is the list of fields and their description for the Copy Pay Table 55 Sets screen.)

STEP 2. Click Choose to select a Pay table set. The system displays Pay Table Set Name, Player Type and Notes in the New Pay Table Set section.

STEP 3. Type the new Pay table Set Name [Mandatory]. 60 This should be unique. The maximum length is 30 characters (including spaces and special characters).

STEP 4. Select your required Player Type from the dropdown list.

Referring to FIG. **29**, a Debit/Credit Player Account panel 65 **2900** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to

40

a server network, such as a Bally SMS & CMS. A closeup view of the debit/credit player account panel 2902 is shown in FIG. 29A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Debit/Credit Player Account panel may include fields for an Enter Player Card Number, Player Name, Player Type, Bucket, Balance, Jurisdictional Balance, Debit/Credit Player Account, Prize Type, Prize Value, Transaction Type, Reason, and Submit.

Debiting/Crediting Player Account

Purpose: If the casino wants to give promotions to their players, they can credit the winnings (cash or bonus), play points and threshold counter to the player account. Plus, you can also use this application to manage the players account in case of any discrepancy in the iVIEW devices.

Procedure: Follow these steps to debit/credit the player account.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Debit/Credit Player Account.

STEP 2. Type Player Card Number in Enter Player Card# (May be mandatory).

STEP 3. Click Find or press Enter. System displays Player Name, Player Type and the player bucket details along with Jurisdictional balance in the respective fields.

STEP 4. By default, the system selects the Cash Prize Type. However, select required Prize Type from the drop-down list. STEP 5. Type Prize Value (Mandatory). This may be a numeric value and there is no need to input any currency sign.

STEP 6. By default, system selects transaction type as 'Debit'. However, select required Transaction Type option. NOTE: The system displays an error message as "Player Notfound in Live Rewards Server" if the specified player card number is not found in the LRS, which in turn checks with casino management system.

A casino may decide to give a player free Live Rewards games without any wagering whatsoever. At registration or other time that the casino sees fit they may credit enough Play Points and Threshold counter points into the player account to enable these free bonus games at the iVIEW or other game play device.

Referring to FIG. 30, a Global Settings panel 3000 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the global settings panel 3002 is shown in FIG. 30A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Global Settings panel may include fields for an iView Re-sync Interval, Volume for Live Rewards Game, Volume for Live Rewards Attract mode, Auto-play (On/Off), Invalid PIN Attempts before Lockout, Time to Clear PIN Lockout, Jurisdiction Limit, Reason for Settings Change, Last Modified Date, Modified By, Save Settings, Show Defaults, and Show Current.

Global Settings

Live Rewards game functions based on the global settings. The global settings affect all iVIEW devices on a casino floor. To View Default Global Settings

Procedure: Follow these steps to view the 's default global Live Rewards settings.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Global Settings. For regulatory purposes, two Administrators, typically managers

having administrative rights, are required to log on to access Games Management submenu and its options.

Set Up Global Settings

Purpose: To view current global settings information and revise global options, use the Global Settings screen. Two 5 Administrator (Admin) users may be logged in to change the global settings.

With this screen you can:

View global settings of the Live Rewards.

Set re-sync time interval, so that iVIEW connects to the LRS after every re-sync interval specified and updates the global settings.

Set speakers volume on iVIEW for attracting players to Live Rewards.

Set speakers volume on iVIEW for game related announcements.

Set invalid PIN attempts, for the number of times a player can enter an incorrect PIN (within the time limit) before the system locks the player's account.

Set time to unlock the Player's PIN giving them a chance to try again.

Set the Jurisdiction limits for the winning amount. A player whose winnings exceeds this value requires a hand payout.

Procedure: Follow these steps to set the global settings. STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Global Settings.

STEP 2. Type required re-sync interval (in minutes) in iVIEW Re-Sync Interval field, so that iVIEW connects to the LRS after every re-sync interval specified and downloads 30 these global settings to it (may be mandatory). The default time is 15 minutes. However, this can be set between 0 to 999 minutes (approximately 16 hours 39 minutes).

STEP 3. Type required percentage of volume of the speakers on the analog potentiometers on the iVIEW audio mixer/ 35 amplifier board in Volume for Live Rewards Game field for the different types of Live Rewards game (may be mandatory). The minimum percentage is zero and maximum percentage is 100.

STEP 4. Type required percentage of volume of the speakers on the iVIEW in Volume for Live Rewards Attract mode field to attract the players towards Live Rewards game (may be mandatory).

For example, when there are no players on the slot machines, to attract them to the Live Rewards game, some 45 game movie with sounds is played on iVIEW device. The minimum percentage is zero and maximum percentage is 100

STEP 5. Select Auto-play by clicking the required radio buttons (ON/OFF). If you set Auto-play to ON, iVIEW starts 50 a Live Rewards game automatically for the player once the player accrues the required play points. If the player interacts with the iVIEW player interface in any way, autoplay is deactivated for the remainder of the player session.

STEP 6. Type maximum number of attempts the player can 55 try entering the PIN number in Invalid PIN Attempts before Lockout field before the system locks the player's account (may be mandatory). This may be a numeric value between 0 to 9999. The system prompts for the player's PIN number before transferring cash winnings to the slot machine.

STEP 7. Type time to clear the locked player account in Time to Clear PIN Lockout field (may be mandatory). This is a numeric value between 0 to 999 minutes (approximately 16 hours 39 minutes).

STEP 8. Type Jurisdiction Limit (in dollars). The jurisdiction limit may be set between 0 to 9999 dollars. This is for submitting tax to the government from the players whose

42

combined value of applicable awards for any single game win is over this specified limit for any Live Rewards games.

STEP 9. Type reason for changing the settings in Reason for Settings Change field (may be mandatory). This can be a alphanumeric value of 50 characters including special characters. NOTE: If you specify zero in Time to Clear PIN Lockout field, then the locked account can only be cleared manually. NOTE: The minimum value is 'Zero' and the default value is '\$1200'. These global settings are affected only when the iVIEW next connects to the server after the elapse of current re-sync interval and the iVIEW device goes to Attract mode state. After the elapse, system does the following:

Updates the Last Modification Date as current date and  $_{\rm 15}\,$  time.

Updates the Modified by as logged in User ID.

iVIEW downloads these global settings from LRS after every re-sync interval specified and updates it accordingly. NOTE: Player accounts are maintained in the LRS. If the player wins an award that exceeds the Jurisdictional Limit the Base Game does not tilt. The player has the option to collect the award at their leisure. When a Player opts to collect a Jackpot, player is instructed to press the service button and await a casino employee.

To View Current Global Settings

Procedure: Follow these steps to view the current global Live Rewards settings.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Global Settings.

STEP 2. Click Show Current. System displays the current global settings, which is in function for all iVIEWs across the casino floor as shown below. These settings are in effect for all iVIEWs on the casino floor.

Referring to FIG. 31, an Import Pay Table Sets panel 3100 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the import pay table sets panel 3102 is shown in FIG. 31A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Import Pay Table Sets panel may include fields for a Select Pay Table Set, Browse, Load, and Import. The Select Pay Table Set field provides a field for entering a paytable file. The Browse field enables a user to browse accessible files and directories to locate a particular pay table file. The Load field is activatable upon locating a file to upload the located pay table file. The Import field may be used to Import the identified pay table file to a pay table database.

Referring to FIG. 32, a Customize-Bonus Game Frequency panel 3200 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel, connected to a server network, such as a Bally SMS & CMS. A closeup view of the live rewards game start rules panel 3202 (an instance of a customization panel 3200) is shown in FIG. 32A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Customize-Bonus Game Frequency panel may include fields for a Live Rewards Game Start Rules, Select Player Type, Play Point Accrual Rate, Liverewards Game Start Threshold, Rule Number, Rule Description, Number of Occurrences, Increments Start Threshold Counter By Selected Number of Units, Reasons for Settings Change, Last Modified Date, Modified By, Update Settings, and Start Rules Updated Successfully. Associated with the Select Player Type field may be a selectable

area for choosing a player type, such as Silver, Gold, Platinum. Associated with the Play Point Accrual Rate may be an editable field for inserting a number, such as 0.25, where the number may be selected between 0.01-10% of base game wagers. The Live Rewards Game Start Threshold may include an editable field for inserting a number, such as 100, to influence the frequency of Bonus games occurring for this player type.

Set Up the Rules for Accessing Live Rewards

Live Rewards is a Marketing tool. Only if you play the base games you can get the Live Rewards game. This is basically for promotion to increase the revenue for the base games. The more you bet, more the chances for getting the Live Rewards game.

Purpose: To set up the conditions for accessing/playing the Live Rewards game on iVIEW device. These conditions are set for each player type. This allows the casino to determine how often a player plays a Live rewards game and how fast the player earns Play Points. Two Administrator (Admin) users may be logged in to set the rules for accessing Live Rewards game.

Procedure: Follow these steps to set up the rules.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Live Rewards Start Rules

 $\ensuremath{\mathsf{STEP}}\xspace$  2. Select Player Type from Select Player Type drop-down list.

STEP 3. Type accrual rate (in percentage, Mandatory) of base game wagers in Play Point Accrual Rate. This can be within 0.01% to 10.00%. Accrual Rate is the percentage of base game played to be accumulated as play points. For example, if you bet 100 dollars in slot game and the accrual rate is set as 0.25%, then, Play Points=\$100×0.0025/\$0.01=25. You accrue 25 play points.

STEP 4. Type Live Rewards Game Start Threshold (Mandatory). This may be a numeric value greater than zero. System Game start threshold is a counter to access a Live Rewards. This allows to set the length of time between Live Reward games.

For example, if you have accrued 25 threshold counters by playing base game and the threshold is set to 75, then you may have to accrue 50 more threshold counters to access Live Rewards. The threshold counter for the player increases based on the rules defined in the Rule Table (see below). These rules determine how the player earns Threshold Counters. The table below explains these Rules:

| Rule<br>Number | Rule Description                          | Explanation  |
|----------------|---|--|
| 01             | Base Game [Normal<br>Play]                | A single play on the slot machine for<br>any wager amount. This is when you hit<br>the Spin button on a slot machine.                  |
| 02             | Base Game [Max Bet]                       | For a maximum wager, when you hit the Maximum button on the slot machine or manually max out the bet on a base game and initiate play. |
| 03             | Session Time                              | If you play the base game for a length of time, for example 30 minutes.  |
| 04             | Session Continuation<br>Time (in minutes) | If you continue to play the base game more than a session, for example 5 minutes.  |

STEP 5. For the rules 1 to 4 in the Rule Table, do the following:

A. Type required number of occurrences for the corresponding rule in # of Occurrences column. This should be a numeric value and the minimum is zero. This may be a

44

numeric value greater than or equal to zero. Setting a value to zero means that this rule may not be in effect.

B. Type required number of threshold counters that gets added to player account in Increments Start Threshold counter by field. This should be a numeric value and the minimum is zero. This may be a numeric value greater than or equal to zero.

For example: If base game, "Normal Play" and "Max Bet" both have the # of Occurrences set to 1 and they both have the increments counter by value set to 1, then:

If the player places a Normal bet they may receive 1 threshold counter.

If they made a Max bet they would receive 2 total counters, 1 for the normal bet and 1 for the max bet.

STEP 6. For regulatory purposes, type Reason for Settings Change (May be mandatory).

STEP 7. Click Update Settings. System updates the settings and confirms the same by displaying the message as shown below. These start rules settings are affected only when the iVIEW connects to the server after the elapse of current re-sync interval. After the elapse, system does the following:

Updates the Last Modification Date as current date and time.

Updates the Modified by as logged in User ID.

iVIEW downloads these start rules from the LRS after every re-sync interval specified and updates it accordingly.

Pay tables in the Live Rewards Management Application Pay tables determine what a player wins for a given outcome of a game. In the Live Rewards, each game is assigned its own Pay table set for each Player's Club level. The Pay table set has many different individual Pay tables within it, which allows the player to spend more play points for a single game for the opportunity to win a greater prize. Pay tables are represented as "Reward Levels" on the Live Rewards game screens.

Each Pay table has several pay levels that define the winning combination of the game. The more the money you bet on base game, more the play points you accrue and richer the Pay table you get. You can have as many Pay table sets as you want in the Live Rewards Server. Provides default Pay table sets for each type of Live Rewards. Later, a Pay table set can be duplicated and altered to meet the requirements. However, the default Pay table cannot be altered. A Pay table set can used by a Live Rewards game, it can be altered.

The Pay table is an XML document containing reward information based on three factors:

Game Name

Pay table Entry

Game Score

All game Pay tables can be adjusted to suit your requirements. Each game Pay table set is independent of the other. Players playing in dollar machine and penny machine gets the Live Rewards at same time but the player at dollar slot machine gets richer Pay table than the player at penny slot machine. Provides default Pay tables for each type of Live Rewards games. These are imported into the LRS (live rewards server) during installation along with the game settings. It is up to the game designer to decide the winning combinations for the game, to decide different pay levels. So, there can be multiple pay levels and hence the pay lines for a Pay table. Thus, in one or more embodiments, you can change the game by setting up the payout for a game. A user can duplicate and alter these Pay tables for different payouts of the game, but cannot delete or change the defaults.

A Pay table set is a collection of Pay tables. You cannot alter or delete those Pay table sets that have been used for Live Rewards games.

45

The initial Live Rewards games have 100% Pay tables, as these are directly linked to game play. Statistically and over time, Live Rewards winnings equal the sum of the Play Points wagered on the Live Rewards games (assuming no Play Point expiration and removal from player accounts.)

Two Administrator (Admin) users may be logged on to access the following Pay Tables Menu Options:

Copy Pay Table Sets

Modify Pay Table Sets

Manage Pay Table Sets

Import Pay Table Sets

Generally, the pay levels or winning probabilities for any Pay table may not be changed by a casino operator as there may be regulatory or other concerns. If a casino operator wants to have such changes made then the manufacturer of the system, 15 such a Bally Technologies should be contacted.

Referring to FIG. 33, a Logon panel 3300 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Logon panel may include fields for a Primary User and a Secondary User where 25 each field may include an input area for a User ID and Password, and a Login and Close field. A Notice field may further be displayed to provide explanatory information, such as "Secondary User is required to View/Change Administration & User Authorization menus."

Referring to FIGS. 34 and 35, a Manage Pay Table Sets panel 3400 (and 3500) is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. 35 The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Manage Pay Table Sets panel may include fields for a Player Type, Game, Current Pay Table Set, Select 40 New Pay Table Set, New Pay Table Set Notes, Current Pay Table Summary, and Reason for Activating. The Current Pay Table Summary may include fields for the Pay Table Name, Threshold, Level, Score, Win Probability, Prize, \$ Value, Quantity, \$ Total.

Re-Assigning Pay Table Sets

Purpose: To assign the Live Reward game to a new Pay table set, depending on the player type. This overrides the currently assigned Pay table set. In other words, there can be only one Pay table set active for one Live Rewards game for 50 a given player.

Procedure: Follow these steps to re-allot a Pay table set for the game and the player type.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Manage Pay Table Sets.

STEP 2. Select required Player Type from drop-down list. STEP 3. Select required Game from drop-down list. System displays currently assigned Pay table set for the game and the player type in Current Pay Table Set field.

STEP 4. Select a new Pay table set from Select New Pay 60 Table Set drop-down list. The system displays the comments entered in the New Pay Table Set Notes field when the Pay table set was imported/copied/modified.

STEP 5. Type your comments for re-allotting in Reason for Activating field. In one or more embodiments, any Pay table 65 set that has been assigned to a particular game and player type cannot be re-assigned to another game or some other player

46

type. Click View to view the details of currently assigned Pay table set. This link is adjacent to Current Pay Table Set field. The system displays only those Pay table sets which can be used for re-assigning in Select New Pay Table Set field.

Deleting Pay Table Sets

Purpose: To delete a Pay table set. In other words, to delete all Pay tables that belong to a set. However, for auditing purposes, you cannot delete the used and provided Pay table sets.

Purpose: Follow these steps to delete a Pay table set.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Modify Pay Table Sets.

STEP 2. Select required Player Type from drop-down list. STEP 3. Select required Game from drop-down list. System displays currently assigned Pay table set for the game and the player type in Current Pay Table Set field.

STEP 4. Select a Pay table set from Select New Pay Table Set drop-down list.

STEP 5. Click Delete. System deletes the selected Pay Management Console, connected to a server network, such as 20 table set and displays a confirmation message. Pay Table Set Deleted Successfully. Click View to view the details of currently assigned Pay table set. This link is adjacent to Current Pay Table Set field. In one or more embodiments, those Pay tables which have been used for any Live Rewards games cannot be deleted.

> Referring to FIG. 36, a Modify Pay Table Sets panel 3600 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the modify pay table sets panel 3602 is shown in FIG. 36A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Modify Pay Table Sets panel may include fields for a Player Type, Game, Select Pay Table Set, Pay Table Set Notes, Pay Tables in the Pay Table Set, Threshold, Game Settings, View Game Settings, Pay out % and Pay out table. The Pay out table may include fields for Card Level, Win Probability, Cash, Bonus Points, \$ Total (adding cash & dollar value of bonus points). Additional fields may be included for Update, Delete, Calculate (the % pay outs), and Informational, such as "Note: You can't modify this Pay table set. This Pay table set already used for the Live Reward Games."

Modifying Pay Table Sets

Purpose: To change the details of replicated Pay table set according to your current requirements. Plus, you can change, calculate and view the new payout percentage on the basis of cash amount and bonus points of each pay level of the Pay table.

Procedure: Follow these steps to change the values of Pay table set and to calculate payout percentage.

STEP 1. From the Live Rewards Management menu, go to 55 Pay Tables submenu and select Modify Pay Table Sets. Following is the list of fields and their description for the Modify Pay Table Sets screen. In one or more embodiments, those Pay table sets which have not yet been activated for a Live Reward game may be modified by a casino operator.

STEP 2. Select required Game from drop-down list. System displays the mapped player type in Player Type field.

STEP 3. Select required Pay table set from Select Pay Table Set drop-down list.

System displays following details of the selected game and Pay table set:

Comments entered in Pay Table Set Notes field while the Pay table set was copied/imported/modified.

List of all Pay tables of the selected Pay table set under Pay Tables in the Pay Table Set section.

Game Settings: The predefined set of rules or mechanics established for a Live Reward game by the game designers. These settings are loaded at the time of LRS installation.

Payout Percentage. This is different for each Pay table. This tells how much the game is paying back to you.

By default, system displays subsequent details of the first Pay table—

Threshold value

Different Pay levels

Win probability

Cash

Bonus Points, and

If you have selected a Pay table set that has been used for any Live Reward game, the system displays the warning message: You can't modify this Pay Table Set. This Pay Table 20 Set already used for the Live Reward Games. Click View Game Settings link, if you want to view the game settings of the selected game. System displays the same in a separate window. The buttons Update, Delete, Calculate and Create New Pay Table may be enabled only if you can modify the 25 values of the Pay table set.

STEP 4. Click the required Pay table link from the Pay-.Tables in the Pay Table Set section. Pay tables are numbered and arranged in ascending order relating to threshold of a Pay table. On clicking, the system displays the play point value, 30 winning probability, cash, bonus points and total corresponding to the list of all Pay Levels of the selected Pay table.

STEP 5. Optionally, you can change the Play Point value according to your requirements, which effects the current Payout percentage. This may be greater than zero.

STEP 6. Type following for the corresponding pay level, if required in PAY OUT section of the screen:

Amount to be given as cash winnings, if the player attains a particular pay level in Cash column. By default, system 40 tem displays the mapped player type in Player Type field. takes cash as 'zero'.

Bonus points to be given as bonus points winnings, if the player attains a particular pay level in Bonus Points column. By default, system takes bonus points as 'zero'.

STEP 7. Click Calculate to view and have an idea of the updated payout percentage and total winnings based on the current values you have entered for the selected Pay table. Total is the addition of Cash and Bonus Points for each pay level. The number in brackets is the number of play points needed to earn the Pay table.

| Field Name       | Description  |
|------------------|--|
| Game             | This is a drop-down list which displays the list of all Bally  |
|                  | Live Reward games that are available in the casino.  |
| Player Type      | The description/name of the player type.   |
| Select Pay       | This is a drop-down list which displays the list of all  |
| Table Set        | paytable sets.   |
| Pay Table        | The comments entered while the paytable set was  |
| Set Notes        | imported/copied/modified (for example, the purpose of the new Paytable set).   |
| Threshold        | The number of play points required to obtain the corresponding paytable. This is the cost of the paytable. This must be a numeric value greater than or equal to zero, |
|                  | which can accept four decimal values.  |
| Game<br>Settings | The predefined set of rules or mechanics established for a Bally Live Reward game by the game designers. This is   |
| ~                | loaded during installation in XML format.  |

## 48

## -continued

|    | Field Name               | Description  |
|----|--------------------------|--|
| 5  | Level<br>WinProb<br>Cash | List of all Pay Levels for a defined paytable. Winning probability of the corresponding pay level. Amount that can be won when the player attains the corresponding pay level. This must be a numeric value greater than or equal to zero. |
| 10 | Bonus Points             | Count of points that can be earned when the player reaches the corresponding pay level. This must be a numeric value   |
|    | Total                    | greater than or equal to zero.  System calculates and displays the total dollar value of the corresponding cash bonus points for each pay level.   |

Referring to FIG. 37, a Customizing the Pay Tables panel 15 3700 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the customizing pay tables panel 3702 is shown in FIG. 37A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Customizing the Pay Tables panel may include fields for a Player Type, Game, Select Pay Table Set, Pay Table Set Notes, Pay Tables in the Pay Table Set, Threshold, Game Settings, View Game Settings, Pay out % and Pay out table. The Pay out table may include fields for Level (Winning Combination), Win Probability, Cash Pay out, Bonus Points Pay out, \$ Total Pay out (adding cash & dollar value of bonus points). Additional fields may be included for Update, Delete, Calculate (the % pay outs), and Create a New Pay table.

Purpose: To create a Pay table within an existing Pay table 35 set

Procedure: Follow these steps to create a Pay table.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Modify Pay Table Sets.

STEP 2. Select required Game from drop-down list. Sys-

STEP 3. Select a Pay table set from the Select Pay Table Set drop-down list. System displays corresponding details of the selected game and Pay table set.

STEP 4. Click Create New Pay Table. System displays Creating New Pay Table section.

STEP 5. Select required Pay table from the Select Existing Pay Table drop-down list. System displays the Threshold value of the selected Pay table.

STEP 6. Type Pay Table Name for the new Pay table to be created (May be mandatory, may be unique).

STEP 7. Type Multiplier value (Mandatory). Thus, a newly created Pay table has a play point value equal to selected Pay table's play point cost, multiplied by the value you have entered. This may be a numeric value greater than or equal to 55 zero. The newly created Pay table automatically multiplies all awards from the template Pay table by the multiple value. These awards can then be manually altered to suit your needs.

STEP 8. Click Create. System creates a Pay table and displays a confirmation message, New Pay Table Created Successfully. In one or more embodiments, a Pay table set that has been utilized for Live Reward games may not be modified.

Deleting a Pay Table from its Set

Purpose: To remove a Pay table from its Pay table set.

Procedure: Follow these steps to delete a Pay table.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Modify Pay Table Sets.

STEP 2. Select required Game from drop-down list. System displays the mapped player type in Player Type field.

STEP 3. Select required Pay table Set from Select Pay Table Set drop-down list. System displays corresponding details of the selected game and Pay table set.

STEP 4. Click the required Pay Table link from the Pay-Tables in the Pay Table Set section. System displays the play point value, winning probability, cash amount, bonus points and total dollar value of the rewards, corresponding to the list of all Pay Levels of the selected Pay table.

STEP 5. Click Delete. System removes the selected Pay table from its set and displays a confirmation message as shown below. In one or more embodiments, Pay tables from those Pay table sets that are not yet used for Live Rewards games may be deleted. You can notice the deletion of Pay 15 Table9 from the pay table set.

Exporting Pay Table Sets

Purpose: To export a Pay table set into XML format. This can be used by game designers as a reference for defining the game settings and structure while creating new Pay table sets. 20

Procedure: Follow these steps to export a Pay table set.

STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Modify Pay Table Sets.

STEP 2. Select required Player Type from drop-down list. STEP 3. Select required Game from drop-down list. Sys-25 tem displays currently assigned Pay table set for the game and the player type in Current Pay Table Set field.

STEP 4. Select new Pay table set from Select New Pay Table Set drop-down list. System displays the comments entered in New Pay Table Set Notes field when the Pay table 30 set was imported/copied/modified. STEP 5. Click Export. System displays File Download dialog box.

A. Click Open to view the structure of selected Pay table set in XML format. System displays the same in a separate window

B. Click Save to save the selected Pay table set in XML format. System opens Save As dialog box. Save the file in required location.

C. Click Cancel to cancel the export task. Click View link to view the details of currently assigned Pay table set. This 40 link is adjacent to Current Pay Table Set field.

Importing Pay Table Set

Purpose: To import a Pay Table Set into Live Rewards server application. This may be in XML format. This adds the Pay Table set to the database which is available for copying, 45 modifying, and assigning it to the Live Reward game.

Procedure: Follow these steps to import a Pay Table Set. STEP 1. From the Live Rewards Management menu, go to Play Tables submenu and select Import Pay Table Sets.

STEP 2. Type path where you have kept the Pay Table Set 50 (in XML format) to be imported in Select Pay Table Set (XML file) field. or, Click Browse to locate the required file name.

STEP 3. Click Load. System displays the contents of the file in a text field that appears shaded (in grey color) as shown 55 below.

STEP 4. Click Import. The system imports the Pay table set into the LRS and displays the confirmation message, Pay Table Sets Imported Successfully. If you have specified a Pay table set that was already imported, the system displays an 60 error message that the given game settings already exist.

Referring to FIG. 38, a Player Session Activity panel is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server 65 network, such as a Bally SMS & CMS. A closeup view of the player session activity panel 3802 is shown in FIG. 38A. The

50

operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Player Session Activity panel may include fields for a Dates Between, Player Card Number, and Show. The Dates Between and Player Card Number fields including editable areas for inputting the associated data, such as beginning and ending date and time and/or a player card number, respectively. The Player Session Activity panel also includes an area to display the requested data, such as information concerning each of the playing sessions of card holder xyz between a specified range of dates. The data display area may include fields, such as View Details, Session ID, iView ID, Start Date Time, End Date Time, Cash Start Value, Cash End Value, Bonus Points Start Value, Bonus Points End Value, Play Points Start Value, Play Points End Value, Threshold Counter Start Value, Threshold Counter End Value. The View Details field may have one or more activatable areas associated with specific sessions, each of which may be activatable to obtain the details of an associated player session.

Viewing Player Sessions

Purpose: To view historical player session details for a particular player card number. Plus, you can view the following player associated bucket details:

1. Player Buckets

Details regarding total winnings classified broadly as balances on the following:

Cash

Bonus points

Play points, and

Threshold counter.

In a casino, one player card is used by multiple players, so there can be many sessions for a single player card.

2. Session Deposits

Session-wise deposit details of the players. In other words, it displays all the transactions which are credited to the player card account.

Procedure: Follow these steps to view player session details.

STEP 1. From the Live Rewards Management menu, go to Player Management submenu and select Player Session Details

STEP 2. By default, the system selects date and time as per the settings in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Type Player Card Number (May be mandatory). STEP 4. Click Show or press Enter. System retrieves the details of the specified player card number.

STEP 5. Click Select under the View Details column to view player-associated transaction details for a particular session. By default, System displays the session deposits of the specified player.

STEP 6. Click the following links:

A. Session Withdrawals to view session-wise withdrawals of the specified player card Number.

B. Session Games to view the details on games played during each session for the specified player card number. Following is the list of fields, column headers and their description for the Player Session Activity screen:

| Field Name          | Description  |  |
|---------------------|--|--|
| Dates Between, Time | Start date, time and end date, time. You can select date range (Month and day) and |  |

time range (Hours, Minutes, Seconds)

## -continued

| -continued |  |
|------------|--|
|            |  |

| Field Name                    | Description   |    | Field Name              | Description   |
|-------------------------------|---|----|-------------------------|---|
|                               | from the drop-down list. The end date should be greater than the start date. Start Date, Time   | 5  | SourceId                | A unique identification code of the source.<br>The possible source and their identifiers<br>are:  |
|                               | Dates Between September 02 10 00 00 <>> <> <> <> <> <> <> <> <> <> <> <> <>   |    |                         | Session Bucket: The identification code<br>of the session, Session ID.<br>iView: The identification code of the   |
|                               | End Date, Time<br>And<br>September 02 10 00 00  | 10 |                         | iView device, iView ID. Game Play: The identification code of the Live Reward game, GameHistory ID.   |
| Player Card #                 | <> <> <> <> <> <> <> <> <> <> <> Player Card Number. It is a unique code to identify the player. The player card number can be an alphanumeric value of         |    |                         | Partial Withdrawal: The identification<br>code of the transaction, Transaction ID.<br>Hand Pay<br>Live Rewards Server                                     |
| Sessionid/Session#            | 20 characters. This is the identification code which is   | 15 | SourceDetails<br>Bucket | A short description of the source.  Type of the bucket/reward subject to the transaction. The possible values are:  |
| iViewId                       | generated by the system for every session.  A unique identification code of the iView device. The iView ID can be an alphanumeric value of 50 characters        |    |                         | Play Points<br>Threshold Counter<br>Bonus Points  |
| StartDateTime                 | including special characters.  The date and time when a particular  | 20 | Value                   | Cash Amount of the transaction. This must be zero or greater than zero.   |
|                               | session begins. The start date is in DD/MM/YYYY format and time in HH/MM/SS AM or PM format.  |    | Jurisdiction Status     | Jurisdiction condition of the transaction. Possible values are 'Yes' and 'No' Status of the Transaction. Possible values                                  |
| EndDateTime                   | The date and time when a particular session ends. The end date is in DD/MM/YYYY format and time in  | 25 |                         | are:<br>Committed<br>Open   |
| CashStartVaule (\$)           | HH/MM/SS AM or PM format. The total amount in the player's account when session starts. This must be a  |    |                         | Rollback<br>Session Games   |
| Control Vanda (6)             | numeric value greater than or equal to zero.  | 30 | HID                     | The game play history number. This is a unique sequential number that is generated by the system.   |
| CashEndVaule (\$)             | The total amount in the player's account when session ends. This must be a numeric value greater than or equal to zero.   |    | GameName                | The name of the Bally Live Reward game.<br>The game name can be an alphanumeric<br>value of 50 characters including special                               |
| Bonus Points Start Value      | The total number of bonus points<br>maintained in the player's account when<br>session starts. This must be a numeric   | 35 | iViewId                 | characters.  A unique identification code of the iView device. The iView Id can be an alphanumeric value of 50 characters                                 |
| Bonus Points End Value        | value greater than or equal to zero.  The balance bonus points in the player's account when session ends. This must be a numeric value greater than or equal to |    | CasinoId                | including special characters.  A unique identification code of the casino.  The Casino Id can be an alphanumeric value of 4 characters.                   |
| Play Points End Value         | zero. The balance play points in the player's account when session ends. This must be   | 40 | GmuId                   | The network identification code of the iView device. The Gmu Id can be an alphanumeric value of 32 characters   |
| Threshold Counter Start Value | a numeric value greater than or equal to zero.  The total number of threshold counter in  | 45 | Asset#                  | including special characters.  A unique identification code of the slot machine. The Asset# can be an   |
|                               | the player's account when session starts.<br>This must be a numeric value greater than<br>or equal to zero.   | 43 | StartDateTime           | alphanumeric value of 8 characters. The date and time when a particular Bally Live Reward game begins. The start date is in DD/MM/YYYY format and time in |
| Threshold Counter End Value   | The balance threshold counter in the player's account when session ends. This must be a numeric value greater than or equal to zero.                            | 50 | EndDateTime             | HH/MM/SS AM or PM format.<br>The date and time when a particular Bally<br>Live Reward game ends. The end date is  |
| Session Depo                  | sits and Session Withdrawals  | _  |                         | in DD/MM/YYYY format and time in HH/MM/SS AM or PM format.  |
| Tran#                         | The identification number of the transaction generated automatically by the   |    | Score                   | This is the result of last played game and the current pay level number from descending.  |
| TransactionDateTime           | system.  The date and time of the transaction when it was created. The date is in DD/MM/YYYY format, and time in  | 55 | Status                  | Status of the Transaction. Possible values are: Committed Open  |
| Source                        | HH/MM/SS AM or PM format. Source of the transaction. The possible values are: ALL   | 60 | Pending HID             | Rollback Pending game history identification number. If a game is pending on the iView device, HID will be non-zero so                                    |
|                               | Session Bucket<br>iView<br>Game Play<br>Partial Withdrawal  |    | Pending Withdrawal #    | that you can cancel the game play.  There could be only one pending withdrawal for any iView device and/or for any session. System displays '0', if       |
|                               | Hand Pay<br>Live Rewards Server   | 65 |                         | the pending withdrawal is cleared, else the identification number of that transaction.  |

15

| Field Name         | Description   |
|--------------------|---|
| Pending Gameplay   | There could be only one pending game or any iView device and/or for any session. System displays '0', if there are no pending game for the particular session, else the identification number of that transaction.                      |
| Pending Handpay    | There could be only one pending handpay<br>or any iView device and/or for any<br>session. System displays '0', if there are<br>no pending handpay for the particular<br>session, else the identification number of<br>that transaction. |
| Transaction_Amount | Amount of the transaction. This must be a numeric value greater than or equal to zero.  |
| Commit_Amount      | The amount that has been credited in the player's account. The commit amount  |

Referring to FIG. 39, a Player Session Activity panel 3900 20 is shown with a Session Deposits Details display such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the player session activity 25 panel 3902 is shown in FIG. 39A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Player Session Activity panel with Session Deposits Details may be 30 obtained by selecting a View Details for a player session identified the Player Session Activity panel 3800 of FIG. 38. The Player Session Activity Panel may be displayed in an area including fields for Session Deposits, Session Withdrawals, Session Games, and Close. Another field may be displayed 35 upon selection of one or more of the aforenamed fields, for example a Session Deposits display area is shown in FIG. 39 and may include fields for a Session Number, Transaction Number, Transaction Date Time, Source (such as iView or Game Play), Source ID, Source Details, Bucket, Value, Juris- 40 diction, and Status.

Referring to FIG. 40, a Player Session Activity panel 4000 is shown with a Session Withdrawals Details display such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server 45 Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the player session activity panel 4002 is shown in FIG. 40A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes asso- 50 ciated with the network servers and gaming machines. The Player Session Activity panel 4000 with Session Withdrawals Details may be obtained by selecting a View Details for a player session identified the Player Session Activity panel 3800 of FIG. 38. The Player Session Activity Panel 4000 may 55 be displayed in an area including fields for Session Deposits, Session Withdrawals, Session Games, and Close. Another field may be displayed upon selection of one or more of the aforenamed fields, for example a Session Withdrawals display area is shown in FIG. 40 and may include fields for a 60 Session Number, Transaction Number, Transaction Date Time, Source (such as Game Play), Source ID, Source Details, Bucket, Value, Jurisdiction, and Status.

Each withdrawal transaction to the player account for an actively playing player is shown in the display area for a 65 selected session. For example: if you spend your accrued play points, it gets debited from your player card account or if your

54

cash winnings are transferred from the iVIEW to the slot machine, it gets debited from your Live Rewards account and credited to your main player account on the casino management system or onto the slot machine itself.

The following are the fields available on the above-referenced screen (panel):

| Field Name    | Description                                |
|---------------|--|
| Source        | Source of the transaction. The possible    |
|               | values are:                                |
|               | ALL  |
|               | Session Bucket                             |
|               | iView                                      |
|               | Game Play                                  |
|               | Partial Withdrawal                         |
|               | Hand Pay                                   |
|               | Live Rewards Server                        |
| SourceId      | A unique identification code of the source |
| DOMEOUTA .    | The possible source and their identifiers  |
|               | are:                                       |
|               | Session Bucket: The identification code    |
|               | of the session, Session ID.                |
|               | iView: The identification code of the      |
|               | iView device, iView ID.                    |
|               | Game Play: The identification code of      |
|               | the Live Reward game, GameHistory ID.      |
|               | Partial Withdrawal: The identification     |
|               | code of the transaction, Transaction ID.   |
|               | Hand Pay                                   |
|               | Live Rewards Server                        |
| SourceDetails |  |
| Bucket        | A short description of the source.         |
| Вискеі        | Type of the bucket/reward subject to the   |
|               | transaction. The possible values are:      |
|               | Play Points                                |
|               | Threshold Counter                          |
|               | Bonus Points                               |
| T 7 1         | Cash                                       |
| Value         | Amount of the transaction. This must be    |
| w             | zero or greater than zero.                 |
| Jurisdiction  | Jurisdiction condition of the transaction. |
| ~ .           | Possible values are 'Yes' and 'No'         |
| Status        | Status of the Transaction. Possible values |
|               | are:                                       |
|               | Committed                                  |
|               | Open                                       |
|               | Rollback                                   |
| Session Games |  |

Referring to FIG. 41, a Player Session Activity panel 4100 is shown with a Session Games Details display such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A player session activity panel 4102 is shown in FIG. 41A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Player Session Activity panel 4100 with Session Games Details may be obtained by selecting a View Details for a player session identified the Player Session Activity panel 3800 of FIG. 38. The Player Session Activity Panel 4100 may be displayed in an area including fields for Session Deposits, Session Withdrawals, Session Games, and Close. Another field may be displayed upon selection of one or more of the aforenamed fields, for example a Session Games display area is shown in FIG. 41 and may include fields for a Session Number, Transaction Number, Transaction Date Time, Source (Game Play), Source ID, Source Details, Bucket, Value, Jurisdiction, and Status.

All game transactions for a specific player and selected session are shown on the above-referenced screen. Available field and features are listed in the below chart: The game play history number. This is a unique sequential number that is generated by the system.

The name of the Bally Live Reward game.

A unique identification code of the iView

The network identification code of the

A unique identification code of the slot

Player Card Number. This is a unique code to identify the player.

Live Reward game begins.

Live Reward game ends.

The date and time when a particular Bally

The date and time when a particular Bally

Number of play points spent in playing a

corresponding Bally Live Reward game.

The amount won as cash (in dollars) by

The bonus points won by playing a Bally

Live Reward game. These points are sent

Name of the Bally Live Rewards game.

The date and time when a particular Bally

Number of threshold counter spent in

playing a corresponding Bally Live

playing a corresponding Bally Live

The short description of the source.

Description

iView device.

Reward game.

Reward game.

to Casino's CMS/CMP.

Game Play Details

machine.

Field Name

GameName

iViewId

GmuId

Asset#

PLRCardNo

StartDateTime

EndDateTime

Source Details

Cash Won (\$)

Game Name

StartDateTime

Bonus Points Won

Play Points Spent

Threshold Counter Spent

HID

|      | . •  | 1    |
|------|------|------|
| -CO1 | าบาท | 11ec |

|    | Features of Prize Types |          |                                     |  |                                    |   |
|----|-------------------------|----------|-------------------------------------|--|------------------------------------|---|
| 5  | Prize<br>Type           | Cashable | Dollar<br>Rate per<br>Prize<br>type | Applicable<br>to<br>Jurisdiction<br>limits | Mapped<br>Player<br>Types          | Expire Day(s)   |
| 10 | Bonus<br>Points         | Yes      | 0.50<br>dollars                     | Yes  | Gold<br>Carded<br>Silver<br>Carded | Can be redeemed<br>any time. This<br>can be cashable<br>or non-cashable<br>depending on<br>the settings in the<br>CMS application<br>of the respective<br>casino. |
|    |                         |          |                                     |  |                                    |   |

In one or more embodiments, winnings may be stored in the player's Live Rewards account. In one or more embodiments, cash winnings may be paid at the gaming machine, either directly from the game or at the player's request. On card insertion, the total value of Play Points, uncollected Bonus Points and cash including jackpots that require hand pay, and Live Rewards Game Start Threshold counters in the player's main account are transferred into a player session account on the LRS.

On player card removal, the player's session account is closed and any Play Points, Threshold Counters, Cash, and Bonus Points are added back into the player's main account. These are usable the next time the player inserts the card.

Multiple session accounts may be opened at any given time. Each session is reserved for itself whatever Play Points etc. that are not currently reserved by another open session.

Winnings from a Live Rewards game are immediately transferred to the player's session account at the end of the game.

Players may enter their Player's Club card PIN (Personal Identification Number) to collect cash winnings.

Player cash winnings are transferred to the slot machine using an electronic funds transfer or through a hand pay. All electronic funds transactions from the Live Rewards game to the base game are logged in the slot management system and on the LRS.

Bonus points won by a player are transferred to the player's account on the casino management system.

All the bonus point transactions are logged by the casino management system and LRS.

To View Prize Conversion Chart

Purpose: To view a chart on various type of prizes to be dispersed to players based on the features of the prizes (See "Features of Prize Types" on page 10). Two Administrator (Admin) users may be logged in to view the prize conversion chart.

Procedure: Follow these steps to view the prize conversion chart.

STEP 1. From the Live Rewards Management menu, go to Games Management submenu and select Prizes-Conversions.

STEP 2. System displays the chart on prize conversion as shown below.

Reports

Referring generally to FIG. 43 through 55, various reports may be generated using the Live Rewards management application. The Live Rewards management application helps you track revenues and the types of transactions happening on the iVIEW devices that are useful for accounting, auditing, and marketing purposes. These reports contain details of transactions of all game play and cashout data for each iVIEW. Data is sent to the LRS on Card-in/Card-out, before and after a system game, when an electronic funds transfer is sent to the

Live Rewards game begins. EndDateTime The date and time when a particular Bally Live Rewards game ends. Reward Level Paytable name that was attained by the player for playing any particular game. This is the result of last played game Score which is a current pay level number from descending. Pay Level Pay level of particular Paytable won by the player. Referring to FIG. 42, a Prizes-Conversions panel 4200 is 40 shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the prizes-conversions panel 4202 is shown in FIG. 42A. The operator control console may comprise a conventional personal computer with coding implemented to execute various

Live Rewards games are comprised of four types of payoffs/prizes. The below table depicts the features of these four types:

processes associated with the network servers and gaming

machines. The Prizes-Conversions panel may include fields

for Prize Type, Cashable, Dollar Value, Jurisdictional

Include, Mapped Player Types, and Expire Day(s).

| Features of Prize Types |          |                                     |  |                                    |                           |
|-------------------------|----------|-------------------------------------|--|------------------------------------|---------------------------|
| Prize<br>Type           | Cashable | Dollar<br>Rate per<br>Prize<br>type | Applicable<br>to<br>Jurisdiction<br>limits | Mapped<br>Player<br>Types          | Expire Day(s)             |
| Cash                    | Yes      | 1 dollar                            | Yes  | Gold<br>Carded<br>Silver<br>Carded | Can be redeemed any time. |

50

57

base game, or a hand pay occurs. Any data that was unable to be sent due to network or other issues is sent at initial power-up. You can view the reports on-screen or save it as a PDF document, excel spreadsheet, word document, or tab delineated text file. It is helpful when the casino needs to import any transactions details into their database. Any regular user can access Reports submenu from the Live Rewards Management menu.

Gameplay Details Report

Purpose: To generate report on game-wise transaction 10 details. You can filter the report based on time frame, player card number, identification code of Asset and iVIEW devices, and game type.

This report lists identification code of Game play history, iVIEW device and slot machine, game name, network 15 address of the device, player card number, date and time, of the begin and end transaction, number of play points and threshold counter played out, winnings on cash and bonus points.

Field Description

This section lists the different filters and their descriptions for the Gameplay Details report.

Report Column Description

This section lists the column headers and their description for the Gameplay Details report.

Procedure: Follow these steps to generate Gameplay Details report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Gameplay Details.

STEP 2. By default, system selects date and time as per 30 settings in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Optionally, you can:

A. Type any/all of the following:

iVIEW Id

PLR Card#

Asset#

Select Game from the drop-down list.

STEP 4. Once you have made all your selections, click 40 Show to view the transaction report.

STEP 5. Select Export Format from the drop-down list to save the generated report into your desired output.

STEP 6. Next, click Save/Open. System prompts with you as "Do you want to open or save this file?".

A. Click Open to view the report through your selected medium.

B. Click Save. Specify required location to save the output in your selected medium.

C. Click Cancel to this task.

Referring to FIG. 43, a Report Configuration panel 4300 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the 55 report configuration panel 4302 is shown in FIG. 43A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Report Configuration panel may include fields 60 for the Casino Name, Casino Address, Reports Default Time, and Save Settings.

Report Configurations

Purpose: To customize the parameters for generating reports. By default, the report gets generated every 24 hours. 65

Procedure: Follow these steps to set up default values for the reports.

58

STEP 1. Type name of the casino in Casino Name field (May be mandatory). The maximum length is 20 characters (including spaces and special characters).

STEP 2. Type street address of the casino in Casino Address1 field (May be mandatory). The maximum length is 50 characters (including spaces and special characters).

STEP 3. Type state and country of the casino in Casino Address2 field. The maximum length is 50 characters (including spaces and special characters).

STEP 4. Type contact details of the casino in Casino Address3 field. The maximum length is 50 characters (including spaces and special characters).

STEP 5. Select hour, minutes, seconds in Reports Default Time field. This is for setting up the time period while generating reports. The report generates for 24 hours. For example: If Time is set as 14:00:00, then the report may be generated from 14:00:00 (previous date) to 14:00:00 (current date)

STEP 6. Click Save Settings. System saves the settings and confirms the same by displaying the message as shown below.

Referring to FIG. 44, a Notification Messages panel 4400 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the notification messages panel 4402 is shown in FIG. 44A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Notification Messages panel may include fields for Dates Between, iView or Live Rewards Server Notifications, Show, Select Export Format, Save/Open, and Request Summary. The Request Summary may include fields for Event Type, Event Date Time, iViewID, Asset Number, Error Code, Event Info.

All iVIEW events and Live Rewards server events are logged on one of the network servers and may be recalled for display on the Notification Messages panel. This feature is used to help casino personnel view error or other events for maintenance and customer service reasons.

|            | Field Name                                      | Description  |  |  |
|------------|---|--|--|--|
| 5 <b>-</b> | Event Info<br>Live Rev                          | The short description of the issue observed by the iView device.   |  |  |
| ٠          | DateTime  | The date and time when the LRS encounters any run time error.  |  |  |
| )          | Application Name<br>Module Name<br>Message Type | The name of the application. The name of the module. The type of the message written by the Live Rewards management application. |  |  |
|            | Message Description                             | The short description of the message.  |  |  |

Notification Messages Report

Purpose: To generate a report that displays the errors/debug observations posted by the iVIEW devices to the Live Rewards management application. This report also displays the internal logs written by the LRS. For example, tilt messages on the iVIEW.

Field Description

This section lists the different filters and their descriptions for the Notification Messages report.

Report Column Description

This section lists the column headers and their description for the Notification Messages report.

Procedure: Follow these steps to generate Notification Messages report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Notification Messages.

STEP 2. By default, system selects date and time as per the defaults set in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Select iVIEW Notifications or Live Rewards Server Notifications radio button.

STEP 4. Click Show to view the report based on your selection.

STEP 5. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 6. Next, click Save/Open. System prompts: Do you want to open or save this file?

A. Click Open to view the report through your selected medium.

B. Click Save. Specify the required location to save the  $_{20}$  output in your selected medium.

C. Click Cancel to this task.

Referring generally to FIG. **45-49**, settings changes may be logged and recalled by an operator at a control console panel **4500**.

Settings Change History Report

Purpose: To generate report that lists the history of changes made to the following components:

Global Settings

Live Rewards Start Rules

Games

Pay Table Sets

Banned Players

User Profile Changes, and

Users Logon Session details.

This report displays the date and time when these changes happened, primary and secondary users' IDs who are responsible for these changes and comments/reasons for the changes. This report can be used for auditing purpose.

Field Description

This section lists the different filters and their descriptions for the Settings Change

History report.

Procedure: Follow these steps to generate Settings Change History report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Settings Change History.

STEP 2. By default, system selects date and time as per the defaults set in Report Configuration screen. However, you can select required date (in Dates Between fields) and time 50 period (in Time fields).

STEP 3. Select any one of the following radio button:

Global Settings

Live Rewards Start Rules

Games

Pay Table Sets

Banned Players

User Changes

Users Session

STEP 4. Click Show to view the report based on your 60 selection.

STEP 5. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 6. Next, click Save/Open. System prompts with you as Do you want to open or save this file?.

A. Click Open to view the report through your selected medium.

60

B. Click Save. Specify the required location to save the output in your selected medium.

C. Click Cancel to this task.

Referring to FIG. **50**, a Patron Account Activity Summary/Details panel **5000** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the patron account activity panel **5002** is shown in FIG. **50**A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Patron Account Activity Summary/Details panel may include fields for Dates Between, Summary, Details, Player Card Number, Show, Select Export Format (such as PDF), Save/Open, and Activity Summary/Detail.

Patron Summary/Details Report

Purpose: To generate a summary of player card number-wise transaction report. In addition, you can also generate detailed player-wise transaction report. You can filter the report based on time frame and Player Card number. The summary report in accordance with player card number lists Player card number, player name, total number of the games played, total number of games won, total number of play points accumulated and spent, total number of threshold counter accumulated and spent, total number of bonus points gained and deposited to player's account, and total amount won and got credited to the respective player's main account. The detailed report lists player card number, player name, date and time of the transaction, details about source of the Live Reward game, reward type and transaction details.

Field Description

This section lists the different filters and their descriptions for the Patron Summary/Details report.

Report Column Description

This section lists the column headers and their description 40 for the Patron Summary/Details report.

Procedure: Follow these steps to generate Patron Account Activity Summary/Details report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Patron Summary/Details.

STEP 2. By default, system selects date and time as per settings in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Select Summary radio button to list summary of transactions in accordance to the player cards, or, Select Details radio button to list player-wise transactions.

STEP 4. Optionally, type PLR Card# to list transactions for a particular player card number.

STEP 5. Click Show to view the report based on your selection.

STEP 6. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 7. Next, click Save/Open. System prompts with you as "Do you want to open or save this file?".

A. Click Open to view the report through your selected medium.

B. Click Save. Specify required location to save the output in your selected medium.

C. Click Cancel to this task.

The charts below shows the fields and descriptions available on this Rewards Server Patron Summary/Details report:

| Field Name                  | Description  |  |  |  |
|-----------------------------|--|--|--|--|
| Summary Report              |  |  |  |  |
| PLRCarNo                    | Player Card Number. This is a unique code to identify the player.  |  |  |  |
| PLRName<br>TotalGamesPlayed | The name of the player.  The total number of games played in   |  |  |  |
| TotalGamesWon               | accordance to the player card.  The total number of games won that account to the player card.           |  |  |  |
| TotalPlayPointsIn           | The total number of play points accumulated in accordance to the player card.                            |  |  |  |
| TotalPlayPointsOut          | The total number of play points played out in accordance to the player card.                             |  |  |  |
| TotalThresholdCounterIn     | The total number of threshold counter accumulated in accordance to the player card.                      |  |  |  |
| TotalThresholdCounterOUt    | The total number of threshold counter depleted in accordance to the player card.                         |  |  |  |
| TotalBonusPointsIn          | The total number of bonus points won in accordance to the player card.                                   |  |  |  |
| TotalBonusPointsOut         | The total number of bonus points that got credited to the respective player's main account successfully. |  |  |  |
| TotalCashIn(\$)             | The total amount won in accordance to the player card.   |  |  |  |
| TotalCashOut(\$)            | The total winning amount that got credited to the respective player's main account successfully.         |  |  |  |
|                             | Detailed Report  |  |  |  |
| TranDateTime                | Date and Time of the transaction when it was created.  |  |  |  |
| Source                      | Source of the transaction. The possible values are:  |  |  |  |
|                             | ALL<br>Session Bucket<br>i View  |  |  |  |
|                             | Game Play<br>Partial Withdrawal  |  |  |  |
|                             | Hand Pay   |  |  |  |
| SourceId                    | Live Rewards Server A unique identification code of the source.  |  |  |  |
| SourceDetails               | A short description of the source.   |  |  |  |
| PrizeType                   | The type of the reward subject to the transaction. The possible values are:                              |  |  |  |
|                             | All  |  |  |  |
|                             | Cash<br>Bonus Points   |  |  |  |
|                             | Play Points  |  |  |  |
|                             | Threshold Counter  |  |  |  |
| TranType                    | Type of the transaction. The possible values are Credit and Debit.                                       |  |  |  |
| TranValue<br>Jurisdiction   | Amount of the transaction.  Jurisdiction position of the transaction.                                    |  |  |  |
| Status                      | Possible values are YES and NO. Status of the Transaction. Possible values                               |  |  |  |
|                             | are:<br>Committed  |  |  |  |
|                             | Open   |  |  |  |
|                             | Rollback   |  |  |  |

Referring to FIG. **51**, an iView (player interface unit) Summary panel **5100** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the iView summary panel **5102** is shown in FIG. **51A**. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The iView Summary panel may include fields for Dates Between, iView ID, Asset Number, 65 Show, Select Export Format (such as PDF), Save/Open, and iView Summary.

Device specific reports (independent of player) may be recalled from the network database and displayed on this panel. Each of the fields displayed in the iView Summary may be described as:

| Field Name                   | Description  |
|------------------------------|--|
| iViewId                      | A unique identification code of the iView device.                          |
| CasinoId                     | A unique identification code of the casino.                                |
| GmuId                        | The network identification code of the iView device.                       |
| AssetId                      | A unique identification code of the slot machine.                          |
| TotalGamesPlayed             | The total number of games played on a particular iView device.             |
| TotalGamesWon                | The total number of games won on a particulart iView device.               |
| TotalPlayPointsAccrued       | The total number of play points accumulated on a particular iView.         |
| TotalPlayPointsSpent         | The total number of play points played out on a particular iView.          |
| TotalCashWon(\$)             | The total amount won in a particular iView device.                         |
| TotalBonusPointsWon          | The total number of bonus points won on a particular iView device.         |
| Total Cash With drawals (\$) | The total winning amount that got credited to the respective player's main |
|                              | account successfully.  |

## iVIEW Summary Report

Purpose: To generate report on summary of transactions for a particular iVIEW. You can filter the report based on time frame, identification code of iVIEW and/or slot machine.

The report lists identification code of iVIEW, Casino and Slot machine, network address of the iVIEW device, total number of the games played, total number of games won, total number of play points accumulated and spent, total amount won (in dollars), total number of bonus points gained and total amount transferred successfully to the respective player's account.

Field Description

This section lists the various filters and their descriptions 40 for the iVIEW Summary report.

Report Column Description

This section lists the column headers and their description for the iVIEW Summary report.

Procedure: Follow these steps to generate iVIEW Sum-45 mary report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select iVIEW Summary.

STEP 2. By default, system selects date and time as per settings in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Optionally, you can:

A. Type iVIEW ID to view summary of a particular iVIEW device.

5 B. Type Asset# to view summary of the iVIEW device on a particular slot machine.

STEP 4. Click Show to view the report based on your selection

STEP 5. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 6. Next, click Save/Open. System prompts: Do you want to open or save this file?

A. Click Open to view the report through your selected medium.

B. Click Save to save the generated report in your selected medium. System opens Save As dialog box. Specify required location.

C. Click Cancel to this task.

Referring to FIG. **52**, a Liability Report panel **5200** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the liability report panel **5202** is shown in FIG. **52**A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Liability Report panel may include fields for Date and Time, Show, Select Export Format, Save/Option, Prize Type, Opening Balance, Total In, Total Out, Expire Quantity, and Closing Balance.

Liability Report

Purpose: The Liability report displays the outstanding cash and play points, un-transferred bonus points and threshold counter values for a particular day, for the entire casino. It can also be generated as a patron liability report.

Field Description

This section lists the different filters and their descriptions for the Liability report.

Procedure: Follow these steps to generate Liability report. STEP 1. From the Live Rewards Management menu, go to 25 Reports submenu and select Liability Summary.

STEP 2. By default, system selects date as system date and time as per settings in Report Configuration screen. However, you can select required date (in On field) and time period (in Time fields).

STEP 3. Select Total Liability or Patron-wise Liability option. By default, system selects Total Liability option.

STEP 4. Click Show to view the report. System deploys the total outstanding cash and play points, un-transferred bonus points and fresh threshold counter values for the selected day.

STEP 5. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 6. Next, click Save/Open. System prompts with you as "Do you want to open or save this file?"

A. Click Open to view the report through your selected medium.

B. Click Save. Specify the required location to save the output in your selected medium.

C. Click Cancel to this task.

Referring to FIG. 53, a Patron Account Activity Summary/Details panel 5300 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the patron account activity panel 5302 is shown in FIG. 53A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Patron Account Activity Summary/Details panel may include fields for Dates Between, Summary, Details, Player Card Number, Show, Select Export Format (such as PDF), Save/Open, and Activity Summary/Detail.

Patron Transaction Details

Purpose: To generate a transaction report for a particular player card number. You can filter the report based on time frame and prize type. The report in accordance with player card number lists player card number, transaction identifier, 65 date and time of the transaction, details about source of the Live Reward game, reward type and transaction details.

64

Field Description

This section lists the different filters and their descriptions for the Patron Transaction Details report.

Procedure: Follow these steps to generate Patron Transaction Details report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Patron Transaction Details.

STEP 2. By default, system selects date and time as per settings in Report Configuration screen. However, you can select required date (in Dates Between fields) and time period (in Time fields).

STEP 3. Type Player Card# to list transactions for a particular player card number (May be a mandatory step).

STEP 4. Optionally, select Prize Type from the drop-down list.

5 STEP 5. Click Show to view the report based on your selection.

STEP 6. Select Export Format from the drop-down list to save the generated results into your desired output.

STEP 7. Next, click Save/Open. System prompts with: Do 20 you want to open or save this file?

 A. Click Open to view the report through your selected medium.

B. Click Save. Specify required location to save the output in your selected medium.

C. Click Cancel to this task.

Referring to FIG. 54, a Patron Account Activity Summary/ Details panel 5400 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the patron account activity panel 5402 is shown in FIG. 54A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Patron Account Activity Summary/Details panel may include fields for Dates Between, Summary, Details, Player Card Number, Show, Select Export Format (such as PDF), Save/Open, and Activity Summary/Detail. In this figure, Summary has been selected and the associated information is displayed. The steps are as described in FIG. 53, apart from this selection.

Referring to FIG. **55**, a Transaction Details panel **5500** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the transaction details panel **5502** is shown in FIG. **55A**. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The Transaction Details panel may include fields for Dates Between, Source, Player Card Number, Prize Type, Transaction Type, Show, Select Export Format (such as PDF), Save/Open, and Transaction Detail report.

The transaction ID, data/time, which player card, source of transaction, source ID, prize type, transaction type (debit/credit), transaction value, jurisdictional event, and status may be shown in this panel.

Transaction Details Report

Purpose: To generate report for all types of transactions initiated by the iVIEW devices. You can filter the report based on time frame, source of transaction, Player Card Number, reward type, transaction type and source Id. This report lists the transactions with respect to all opened and closed sessions, begin and end game, play point and Threshold counter deposits, and player cash winning transactions initiated by an iVIEW device to the LRS.

15

20

45

50

Field Name

65

Field Description

This section lists the different filters and their descriptions for the Transaction Details report.

Procedure: Follow these steps to generate Transaction Details report.

STEP 1. From the Live Rewards Management menu, go to Reports submenu and select Transaction Details.

STEP 2. By default, system selects date and time as per the defaults set in Report Configuration screen. However, you can select required date (in Dates Between fields) and time 10 period (in Time fields).

STEP 3. Optionally, you can:

A. Select any/all of the following from the respective dropdown list:

Source

Prize Type

Transaction Type in Tran. Type field

B. Type Player Card number in Player Card # field.

C. Type Source Id, if you want to view the report of particular Source.

STEP 4. Once you have made all your selections, click Show to view the transaction report.

STEP 5. Select Export Format from the drop-down list to save the generated report into your desired output.

STEP 6. Next, click Save/Open. System prompts with you 25 as "Do you want to open or save this file?".

A. Click Open to view the report through your selected medium.

B. Click Save to save the output in your selected medium. System opens Save As dialog box. Save the file in required 30 location.

C. Click Cancel to this task.

| Description  |  |   |  |   |  |
|--|--|---|--|---|--|
| can select d<br>time range<br>from the dr<br>should be g<br>Start Date,  | late ran<br>(Hours<br>op-dow<br>reater t<br>Time   | ge (Mo<br>, Minut<br>/n list.   | nth and<br>es, Sec<br>The end  | nd day) and<br>econds)<br>nd date                                       |  |
|  |  | 10  | 00   | 00  |  |
| <><br>End Date, T<br>And   | <><br>Time   | <>  | <>   | <>  |  |
|  |  | 10  | 00   | 00  |  |
|  |  |   |  | <>  |  |
| source of the transaction. The povalues are:  ALL Displays transacations from all s Session Bucket Not currently used. iView Displays transactions from all iV devices. This can be credit of pla or Threshold Counters to the pla session accounts or a debit from session account to the base game case of cash withdrawals. (Partia withdrawals are handled separate Excludes partial withdrawals.) Game Play Displays transactions occurred in course of all Live Reward game This can be Begin Game/End Ga Partial Withdrawal |  | ver's the in the label.   |  |   |  |
|  | can select of time range from the dr should be g Start Date, Dates Betw September < > End Date, T And September < > This is a dr source of the values are: ALL Displays traces of a case of cash withdrawal. Excludes program accesses of cash withdrawal. Excludes program Play Displays traces of all This can be Partial With Displays all the Partial With Partial With Partial Visplays all the P | can select date ran time range (Hours from the drop-dow should be greater to Start Date, Time Dates Between September 02 <>  <>  <>  <>  <>  Start Date, Time And September 02 <>>  <>  <>  Start Date, Time And September 02 <>  <>  <>  Start Date, Time And September 02 <>  <>  <>  Start Date, Time And September 02 <>  <>  <>  Start Date, Time And September 02 <>  <>  <>  Start Date, Time And September 02 <>  <>  Start Date, Time And September 02 <>  <>  Start Date, Time And September 02 <>  Start Displays transaction devices. This can loor Threshold Coursession accounts cosession accounts cosession accounts to case of cash withdwithdrawals are he Excludes partial withdrawals are he Excludes partial withdrawals are he Begin Partial Withdrawa Displays all transactic course of all Live This can be Begin Partial Withdrawa Displays all transactic Partial Withdrawals the | can select date range (Motime range (Hours, Minut from the drop-down list.' should be greater than the Start Date, Time Dates Between September 02 10 <> | Dates Between September 02 10 00 <> <> <> <> <> <> <> <> <> <> <> <> <> |  |

-continued

|               | allowable transfer limit is \$100, so only                                      |
|---------------|---|
|               | \$100 is transferred. This constitutes a  |
|               | partial withdrawal.   |
|               | Hand Pay  |
|               | Displays all transactions with respect to                                       |
|               | Hand Pay category. For example, if your   |
|               | winnings are more than the jurisdictional                                       |
|               | limit, you cannot transfer the winnings to                                      |
|               | the base game. You need to initiate hand  |
|               | pay by pressing Collect on the iView  |
|               | interface, entering your PIN number, and  |
|               | pressing Service to inform the casino that                                      |
|               | you need assistance. Then, the casino   |
|               | employee gets the appropriate IRS tax   |
|               | forms for you to sign and pays you the  |
|               | cash award by hand. For this source ID is<br>Employee Number and source is Hand |
|               | Pay.  |
|               | Live Rewards Server (LRS)   |
|               | Displays transactions that are caused by  |
|               | LRS. This can be debit/credit of the cash/                                      |
|               | bonus points threshold counter/play   |
|               | points directly to the player's main  |
|               | account through the Live Rewards  |
|               | management application. For these   |
|               | transactions, the source would be LRS and                                       |
|               | the source ID would be logged in User ID  |
|               | (Primary User). For example, for  |
|               | promotional purpose, casino introduces  |
|               | and declares that, if anyone registers  |
|               | newly, they give 100 play points. So that                                       |
|               | they can play Bally Live Reward games.  |
|               | These play points are credited to newly   |
|               | registered player's account through Live  |
|               | Rewards management application. For   |
|               | this a new transaction is created and the                                       |
|               | source is LRS.  |
|               | By default, system selects ALL, to include                                      |
|               | all sources in the report.  |
| Player Card # | Player Card Number. It is a unique code   |
|               | to identify the player. The player card   |
|               | number can be an alphanumeric value of  |
|               | 20 characters.  |
| PrizeType     | This is a drop-down list that displays  |
|               | reward types for the transaction. The   |
|               | possible values are:  |
|               | All   |
|               | Cash  |
|               | Bonus Points  |
|               | Play Points   |
|               | Threshold Counter   |
|               | By default, system selects ALL to include                                       |
|               | all types of rewards in the report.   |
| TranType      | Type of the transaction. The possible   |
|               | values are:   |
|               | Credit - The amount withdrawn from  |
|               | your account.   |
|               | Debit - The amount deposited to your  |
|               | account.  |
|               | A unique identification of the source.  |
| SourceId      | A unique identification of the source.  |

Referring to FIG. 56, a Create New User panel 5600 is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. A closeup view of the create new user panel 5602 is shown in FIG. 56A. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming 65 machines. The Create New User panel may include fields for User Name, User ID, Password, Re-enter Password, Administrator or Player Management Only, and Create User.

66

Description

Managing Users

User Authorization options help you to set up access rights for Live Rewards management application users. Upon granting access, each user type, ID and password is verified before the application is made available to them. The user type of defines the tasks available to the user.

User Types and Privileges

There are two types of users: Regular and Administrator. The privileges of these user types are:

Regular

A regular user can view reports. Depending on how this user type is configured, the Regular user can ban players from playing Live Rewards, maintain player session details and debit/credit transactions from player account.

Administrator

An administrator is granted the same privileges as a regular user, plus the ability to create and maintain the following:

User Profiles

Global Settings

Start Rules for Live Rewards

Pay Table Sets

The administrator user can also debit or credit a player account, activate and register iVIEW devices, set up the defaults for generating report. For regulatory purposes, two 25 Administrator users are often required to access User Authorization.

Regular user can access Reports submenu from the Live Rewards Management menu. Regular user can also access Player Management submenu from the Live Rewards Management menu, provided the player management role is enabled for that user.

For regulatory purposes, two Administrators are often required to access Games Management and User Authorization from the Live Rewards Management menu. This control 35 is incorporated in the login procedure as shown with the login panel figure.

Creating a New User Account

Purpose: To create a new user account. Plus, the user can set the administrator and player management rights for the 40 new account. Two Administrator (Admin) users may be logged in to create a new user account.

Procedure: Follow these steps to create a new user account. STEP 1. From the Live Rewards Management menu, go to User Authorization submenu and select Create New User.

STEP 2. Type User Name (Mandatory). The maximum length is twenty characters (including spaces and special characters).

STEP 3. Type User Id (Mandatory). The maximum length is eight characters and may contain five alphanumeric characters. No special characters are allowed except under score ().

STEP 4. Type Password (May be mandatory). For example, the maximum length may be twenty characters and may contain at least six characters including spaces and special characters. Biometric identification may be used as an alternative or in addition to passwords.

STEP 5. Type password again in Re-enter Password field to confirm the password (May be mandatory).

STEP 6. Select Is Administrator check box to give admin 60 rights to the new user.

STEP 7. Select Player Management check box to give rights to ban players from playing Live Rewards, maintain player session details and debit/credit transaction from the player account.

Password input may be case sensitive. When you type passwords, you may only see \*\*\*\*\* (bullets). System displays

68

an error message "Mismatch Passwords", if there is a mismatch in the passwords entered by you in Password and Re-enter Password fields.

If Player Management check box is selected, user can access the following screens under Player Management submenu from the Live Rewards Management menu:

Clear PIN Lockout

Banned Players

Player Session Details

Active Player Sessions

Debit/Credit Player Account.

STEP 8. Click Create User. System verifies the User Id for duplication. If it is not duplicated, system creates the new user and confirms the same by displaying the message as shown below.

Referring to FIG. 57, a Live Reward flow graph 5700 with and without player card is shown such as may be used on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines.

FIG. 57 is provided as FIGS. 57-1, 57-2 and 57-3. Process (graph) 5700 is illustrated with an initial state of a player account at module 5702. At module 5704, the player account is reset as the session information of module 5706 is updated with the player account data for the first player account card insertion. Basically, the first player account card insertion allows for use of the player account. At module 5708, the (empty) player account is available for a second session at module 5710, resulting from insertion of a second player card tied to the player account. From here, the two sessions occur in parallel.

At module 5712, the first session is played, with the original player account information. At module 5714, the player plays an EGM and wins, with accumulated winnings shown at module 5716. Meanwhile, at module 5718, the second session occurs, with winnings for the second session shown at module 5720. Additionally, as shown, the player cashes out at module 5722, and the session is updated at module 5724. At module 5726, the second session terminates with the player pulling the card, and data is rolled to the master account at module 5728. Likewise, at module 5730, the first session terminates and data is rolled to the master account at module 5732.

Referring to FIG. **58**, a Live Rewards Session Accounts panel **5800** is shown such as may be used on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The panel **5800** provides information about session accounts.

Referring to FIG. **59**, a panel **5900** is shown such as may be displayed on an Operator Control Console, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated with the network servers and gaming machines. The panel **5900** provides data from the process of updating an account.

Referring to FIG. 60-61, a Live Rewards Gaming Network is illustrated, which may include an Operator Control Con-

sole, such as a Bally Control Panel and/or a Bally Live Rewards Server Management Console, connected to a server network, such as a Bally SMS & CMS. The operator control console may comprise a conventional personal computer with coding implemented to execute various processes associated <sup>5</sup> with the network servers and gaming machines.

In one embodiment, the following equipment is specified. iView Equipment

In one embodiment, iVIEW is an LCD touch-screen display that replaces the 2-line, 2×20 display and keypad that are currently separate devices on the standard Enhanced Player Interface (EPI). iVIEW can upgrade any current EPI device, and supports all existing GMU functionality.

Live Rewards Server

The LRS communicates with iVIEW through Web Services over http/http(s).

Hardware

P/N: BS-90-0031

1 ea. external HP ProLiant DL 140G2 Rack 1U 1X Xeon 20 2.8/1M

1 ea. USB Floppy Disk Drive

2 ea. HP 36 GB 15K Ultra320 NHP Hard Drive

DVD Option Kit DL145

ML110 SCSI RAID CTR WW (Adaptec 2120S).

Software

Microsoft Windows Server 2003 Standard Edition

Microsoft Windows SQL Server 2000 with Service Pack 3

Microsoft Internet Information Server 6.0 (IIS)

Microsoft .NET Framework 2.0

Crystal Reports—Redistribution Package

iSeries Access for Windows (Service Pack 6082 and higher)

Gamenet.exe.1050 (Live Rewards are supported only with the Windows Gamenet)

iVIEW.bin.960

SMS\_NT.HEX.10800

Gns.exe.2010 (Live Rewards are supported only with the Windows Gamenet Server).

Referring to FIG. 60, the system 6000 is shown with a client side device 6010 and a server side device 6050. Client device 6010 includes an Audio amplifier 6015, speakers 6020, iView processor 6025, card reader 6030, communications processor 6035 and EGM 6040. Server side devices 6050 includes an Ethernet switch 6055, Ethernet connections 6060, a live rewards server 6065, CMP 6085, SDS server 6080, gamenet bridge 6075, and slot line connector 6070 with optional intermediate board (harmonica board) if necessary to coordinate signals from multiple client devices 6010. Communications processor 6035 communicates via slot line 6070 with the gamenet bridge 6075, providing results from EGM 6040. iView processor 6025 communicates with the live rewards server 6065 via Ethernet connections 6060 to provide interactive player-specific information from the rewards system.

Referring to the illustration in FIG. 61, a gaming system 6100 is provided. The gaming system includes a client machine 6110, gamenet bridge 6135, SDS server 6160, CMS/CMP server 6150, rewards server 6140 and game to server communications link 6145. The client machine 6110 houses 60 a game, with an iView module (rewards module) 6115, communications module 6120, game unit (base game 6125) and credit meter 6130. Also represented is a card slot. Communications module 6120 communicates using a slot line with gamenet bridge 6135, providing basic game information, 65 such as wins, losses, credit information, etc. Likewise, rewards module 6115 communicates via game to server link

70

**6145** with rewards server **6140**, providing information about rewards status to the server, and conveying messages from the server to the player.

Referring to FIG. 62

FIG. 62 depicts a software flowchart 6200 showing how the Live Rewards bonus game frequency of play is controlled. The server side variables are configured as shown in FIG. 32. Events (6205, 6210, 6215, 6220, 6225) contribute to a threshold counter 6230. The threshold counter 6230 and the cost of the game are used to control the frequency of a player being able to play a live rewards game. Even if the player has enough play points to play the game may not be enabled to play unless the business rules on this figure are achieved.

The base game played **6280** provides play points to a total unused play points **6280**. If the total unused play points are not enough to achieve a payment at module **6275**, a determination of the percentage for starting the next game is made at module **6265**. If the determination at module **6275** is that enough unused play points are present, then a determination of the percentage for starting the next game is made at module **6260**. At module **6250**, the threshold counter divided by the system game start threshold from module **6240** and the percentages from modules **6260** and/or **6265** are evaluated, and the percentage necessary for completion is displayed at module **6270**.

Below is the software logic routine used by the iVIEW to calculate the ability for the player to play a bonus game and how close they are to playing so each game can tease the player into playing more on their primary game because the player sees progress to earning a bonus game. In the video poker game this shows 3 of the 5 cards are dealt to the player if the player is three-fifths the way to earning the bonus game.

There is a software function running in the iVIEW called BalanceUpdateData() or BUD that determines whether or not a player has earned enough playpoints and StartThresholdCounter points to start a Bonus game on iVIEW. This software can also run at the server in alternate embodiments. It also returns the percentage toward the next reward level the player is so that it may be shown in the console or game. The key variable set is the NextGamePercent variable that is used to determine the progress of the lights around the game button in the console browser or how close the player is to earning their bonus game inside a game. If the variable is 50 then 50% of the playfield in Poker would be shown (for example 50% of the cards would be visible). Meaning the player is 50% the way to their earning the Poker game.

These start threshold rules are configured in the Live Rewards Game Start rules configuration screen on the Live Rewards Server (refer to FIG. 32). Referring to FIG. 36 the Threshold number is the number of play points required to fund this specific paytable for this specific game. The player specific buckets that accrue as the player plays are called PlayPoints and TC's (or threshold counter points) are used in the BUD calculations with the Play Points required for the selected game and the Game Start rules configured as configured in FIG. 32).

The play points accrued determine the reward level of the game that will be played if the player chooses to play at this time. The reward level determines the games pay table. The more Play Points the player has the greater the reward level and better the pay table is for the player. A heavy wagerer will likely have a larger reward level and get better live rewards pay tables. A light wagerer will have smaller reward level bonus games but they will still be able to play if they met the start threshold conditions of BUD.

Referring to FIGS. **63-76**, the figures illustrate an embodiment of the invention as developed for the ACSC iSERIES platform.

Referring specifically to FIG. 63, FIG. 63 is illustrated as FIGS. 63-1 and 63-2. Process 6300 provides a process for 5 maintaining rewards data. Process 6300 initiates at module 6355. At module 6360, the NT starts up. At module 6365, it is determined whether the rewards feature is enabled. If the feature is turned off, at module 6370, points required to play the game are deducted. After the patron removes their card 10 (completes the game), then at module 6375, information about the game is retrieved from the game machine and the rewards account for the player is adjusted.

If the rewards feature is turned on, at module **6305**, a patron inserts a card into a game machine. At module **6315**, the game 15 machine receives information on the player rewards account, including information from module **6310** on criteria involved in playing the game. Data for the player may be maintained at module **6320**, for example. At module **6325**, the NT stores the updated patron data. At module **6335**, the patron determines 20 (and provides to the system) whether to continue using the rewards system or not. If not, and the player pulls the card, then at module **6340**, data from the session is sent to the NT and at module **6345**, the session terminates. Note that in the example illustrated, module **6330** indicates the player played 25 and earned 4 points.

If the player keeps playing with the rewards system by playing a system game, then at module 6350, the player selects the system game (e.g. poker, bingo, etc.) If the player pulls their card at this point, the session information is transmitted at module 6380 and the session terminates at module 6382. If the player continues to play the system game, then at module 6385 the points for the game are deducted, and at module 6390 the result is transmitted to the rewards system. Additionally, the result is displayed graphically for the user at module 6395 and the process terminates at module 6397.

Various processes, as illustrated in FIGS. **64-67**, come into play in using the rewards system. Process **6400** of FIG. **64** illustrates a process of handling a system game with a player card in the device. At module **6410**, the machine receives the 40 player card. At module **6420**, the machine and rewards system interact. At module **6430**, it is determined if rewards tracking is active. If not, the system returns (provides) the point balance to the machine at module **6440** and transfers the points to the machine at module **6450**.

If the tracking system is active, at module **6460**, the points request goes through the tracking system and at module **6465** the system sends the points to the machine. Additionally, at module **6470**, the system is checked for a player balance at database **6480**. The balance is returned to the system at module **6490**, and this point balance will be the point balance provided at module **6465**.

With points earned, process **6500** of FIG. **65** executes. At module **6510**, points are earned at the machine. At module **6520**, it is determined whether tracking of rewards is active. If 55 not, then at module **6530**, the system is notified of the points earned (for potential later tracking). If so, then at module **6540**, the system points and any residual is send to the system. At module **6550**, the system updates player balances in the system database **6560**.

In general, the results of playing a game are illustrated in process 6600 of FIG. 66. With a system game played at module 6610, the process determines if the tracking system is active at module 6620. If not, the system is notified of the result at module 6630. If the tracking system is active, at 65 module 6640 the results and player details are sent to the system. At module 6650, a determination is made as to

72

whether cash or points are desired. (This may be a result of a user input, for example.) If cash, at module 6660 the cash notify system is provided the relevant information at database 6670. If points, at module 6680 the points are added to the player account of database 6690.

If withdrawal occurs, the process 6700 of FIG. 67 executes. At module 6710, the request for a withdrawal is received. At module 6720, the machine interacts with the tracking system and at module 6730, a determination is made as to whether the tracking system is operating. If no, at module 6735, a check is made as to whether the balance is ok (such as through an authorization request) and at module 6740, any credits which are authorized are added at the machine. If the tracking system is operating/connected, then at module 6750 a request for the withdrawal is sent to the tracking system. The system verifies whether the balance is available at module 6760 using the player balances database 6770, and returns to the machine whether the amount is available or not at module 6780. This response is then returned to the machine through the system interface at module 6755 (and thus the balance is added is possible). The following further illustrates how this functionality and these processes may be realized in some embodiments.

In one embodiment, this system provides the ability for patrons to earn System Game Play Points by playing the base game. Once the patron has earned enough System Game Play Points they may be able to play a System Game on iVIEW. The specifics of this system are discussed in the following paragraphs. The patron can select whichever System Game they wish (Poker, Bingo, etc.). Once the System Game is selected, the patron may Spend their System Game Play Points to play the System Game. The system is configurable for (Cash to points) and (points for System Game play). This System Game is just like playing the base game, only on iVIEW.

After a System Game is played, if the result of the System Game is loss, then the NT may send up a 229 transaction with Result field 0. After a System Game is played, if the result of the System Game is less than the Hand pay limit, one of two things can happen. If the System Game Win Deposit is set to I (iSERIES), the system game result transaction with the amount won may be sent to the iSERIES. The iSERIES may then create a System Game Award record. The patron can then draw against the System Game Award record until the full amount is collected. Please note that multiple System Game Award records can be maintained per patron and the accumulative amount available to be collected may be sent down with each patron request. The applied amounts are deducted from the System Game Award records in the order of creation. The casino has the flexibly to make the winnings either cashable or non-cashable depending on Regulatory approval. A new withdraw transaction 225 may be generated when a System Game transfer occurs (the EI and PC meter may increment when the system set to transfer cashable credit), and (the PI meter may increment when the system set to transfer noncashable credit). In the event that the transfer fails, a new System Game transfer void transaction 226 may occur and the money may be applied back to the patron's account. If the patron does not wish to download their winnings to the base game, they can select to have their winnings carried on their account. The casino can set how long the winnings are kept in the patrons account.

If the System Game Win Deposit is set to E(ePROMO), the system game result transaction with the points won may be sent to the Gamenet Server. The Gamenet Server may add the

points to the player's account. The patron can utilize the existing ePROMO feature in the system to withdraw money at

If the result of the System Game is greater than the Hand pay limit, then the NT may send up a 229 transaction with the 5 Money Result field 1 (Hand pay), the Hand pay amount may be displayed on the System Game for 1 minute, then the system may return for more play.

The system can be set up to automatically transfer the winnings to the base game at the time of win. If the transfer is 10 successful a 229 transaction is generated with Money Result field 2 (Game), if the transfer is unsuccessful a 229 transaction is generated with Money Result field 0 (iSERIES).

The system can be set up to always display the System Game to the patron and autoplay the System Game when the 15 required System Game Play Points are earned. With this configuration, the patron may see his progress to playing the System Game as he is playing the base game. For example, if poker is the System Game, and it take 10 points to play the System Game. The patron may see the back of  $2\frac{1}{2}$  cards when 20 they he earned 5 System Game Play Points. Once they earn another 5 points, the System Game may start automatically.

By example, System Game may be supported with the Windows Gamenet Browser and Server (hereby incorporated by reference).

iSERIES:

The iSERIES may now have to reconcile the games cashless meter. For example, if a patron withdraws \$5.00 from their account onto the machine both the NT's and Game's EI meter steps for \$5.00. If the result of a System Game transfer 30 is \$5.00 to the game, the NT's and Game's EI meter may both step for \$5.00. The current reports that are used for ePROMO/ eFUND/eBONUS may have to offset the System Game

The iSERIES may have a System Game menu that the 35 following options may be configured and sent to the NT in a new 232 transaction:

- 1) iSERIES version running supports System Game (0—Disable, 1—Enable)
  - a) NOTE: This option can only be changed by the user after 40 6) Hand pay limit—Minimum winning amount of \$\$ that the license key and encryption key for number of assets is applied.
- 2) System Game active flag by card level—Turns on/off System Game for this patron by card level. (Bit 0=Lowest, Bit 1=Middle, Bit 2=Highest, Bit 3=No Card)
- 3) Auto play flag (0—patron select (Dashboard default screen, patron may press new System Game button on dashboard to play System Game)/1-auto play (System Game default screen, patron may select dashboard button on the System Game to go to dashboard)
- 4) Default System Game ID—36 digit GUID (Glo Unique ID)—Only applies to auto play mode
- 5) Hand pay limit—Minimum winning amount of \$\$ that may cause a hand pay. (0=No limit)
- 6) System Game Cashless Method for Carded Players— 55 (0=Non-Cashable, 1=Cashable)
- 7) System Game Cashless Method for Non-Carded Players— (0=Non-Cashable, 1=Cashable)
- 8) Idle Time for abandon player reset—Only applies when System Game is enabled for non-carded play. (0=Never 60 Terminate) NOTE: This parameter is represented in min-
- 9) Pin Required for System Game winning's withdraw (0—Pin not required/1—Pin Required)
- 10) Cash Required to earn a System Game Play Point in cents 65
- 11) Minimum System Game Play Points to play a System

74

- 12) System Game Win Deposit (I=iSERIES (The winning may be transmitted to the iSERIES), G=Game (The winnings may be transmitted to the MPU), E=ePROMO (The winnings may be transmitted to the Gamenet Server to be added to the players ePROMO account)
- 13) Max Spend Multiplier (Max Bet for the System Game, the system game may multiply the Pay table with how many points are Spent)
- 14) Universal Card Supported (0=Not Supported, 1=Supported) NOTE: When Universal Card is supported, both System Game Play Points and residual may be maintained on the iSERIES. If Universal Card is not supported, both System Game Play Points and residual may be maintained on the Gamenet Server.
- 15) System Game Winning may be maintained on (0=iSER-IES, 1=Gamenet Server)
- 16) Additional fields may be added for future support

These transactions may be sent down in the event of a change, and every echo test. The iSERIES may be able to force the 232 transaction down to the floor On Demand.

The iSERIES may send the following information to the Gamenet Server in the 200 glo transaction subcode "s":

- 1) iSERIES version running supports System Game (0-Disable, 1—Enable)
  - a) NOTE: This option can only be changed by the user after the license key and encryption key for number of assets is applied.
- 2) Cash played to earn a System Game Play Point
- 3) System Game active flag by card level—Turns on/off System Game for this patron by card level. (Bit 0=Lowest, Bit **1**=Middle, Bit **2**=Highest, Bit **3**=No Card)
- 4) Auto play flag (0-patron select (Dashboard default screen, patron may press new System Game button on dashboard to play System Game)/1-auto play (System Game default screen, patron may select dashboard button on the System Game to go to dashboard)
- 5) Default System Game ID-36 digit GUID (Glo Unique ID) Only applies to auto play mode
- may cause a hand pay. (0=No limit)
- 7) System Game Cashless Method for Carded Players— (0=Non-Cashable, 1=Cashable)
- 8) System Game Cashless Method for Non-Carded Players— (0=Non-Cashable, 1=Cashable)
- 9) Idle Time for abandon player reset—Only applies when System Game is enabled for non-carded play. (0=Never Terminate) NOTE: This parameter is represented in min-
- 50 10) Pin Required for System Game winning's withdraw (0—Pin not required/1—Pin Required)
  - 11) Purge by card level—Amount of time the System Game Play Points and Cash Residual is available to the player.
  - 12) Minimum System Game Play Points to play a System Game in cents
  - 13) System Game Win Deposit (I=iSERIES (The winning may be transmitted to the iSERIES), G=Game (The winnings may be transmitted to the MPU), E=ePROMO (The winnings may be transmitted to the Gamenet Server to be added to the players ePROMO account)
  - 14) Max Spend Multiplier (Max Bet for the System Game, the system game may multiply the Pay table with how many points are Spent)
  - 15) Universal Card Supported (0=Not Supported, I=Supported)
  - 16) NOTE: When Universal Card is supported, both System Game Play Points and residual may be maintained on the

iSERIES. If Universal Card is not supported, both System Game Play Points and residual may be maintained on the Gamenet Server.

- 17) System Game Winning may be maintained on (0=iSER-IES, 1=Gamenet Server)
- 18) Additional fields may be added for future support

This transaction may be sent down in the event of a change, and every echo test.

The iSERIES may have a configuration screen that may allow the operator control the following settings per System Game:

System Game name

System Game ID—36 digit GUID (Glo Unique ID)

IVIEW Show Number per System Game

Enable/disable by card level

Enable/disable by zone, denomination (cents)

System Game description

Once the configuration is complete, the iSERIES may convert the data into a SysGameConfig.xml file and then download the file to every gamenet. NOTE: The iSERIES may have the capability of sending down a 165 transaction subcode 8 to the Gamenet to send the SysGameConfig.xml immediately via non-interlaced/interlaced

0=Non-Interlaced

1=Interlaced

The iSERIES may have a liability report that may provide the total amount of System Game Winning's to the Total amount paid via Withdraw/Hand pay.

The iSERIES may have a liability report that may provide 30 the total number of Points for each patron and a total summary.

The iSERIES may integrate all System Game data to the following: Slot Analysis, GDW, Group Analysis, Drop Breakdown, DOR, Applicable E-drop reports.

The iSERIES may have a screen that may show the operator the following:

- 1. Theoretical Cost (This may be a formula calculated based off of System Game Play Points and System Game Credit criteria.
- 2. Actual Cost for day

The iSERIES may turn off System Game when the operator threshold has been met. This threshold can be set by (day, week, etc.) If a threshold value is set by the user, the counters may started from that point. Once the threshold value is 45 reached, an override option may be implemented allowing the operator to budget additional system game money. For example, if the threshold is \$10,000.00 for one day, and the threshold is reached in 20 hours, the operator could set an override for an additional \$5,000.00 dollars totaling \$15, 50 000.00 in 24 hours. The threshold can be set for automation or operator interaction. When set for operator interaction, once the threshold is reached, system game is shut down. When the System Game is shut down, the patrons may not be able to earn additional System Game Play Points, and/or play system 55 games. The user may have to turn back on, the counter may be reset at that point.

The iSERIES may now enable a new bit in the 143 transaction that System Game is enabled for that asset. The iSERIES may be able to send the players points earned and residual 60 to the Gamenet Server on a Re-build process in the event of a crash. The iSERIES may send down the following information to the NT in the 151 transaction:

1) System Game cash residual—cash left to be played before one System Game Play Point is earned. NOTE: The cash residual may only be downloaded to the first card in. The second card may receive a cash residual of % 100 76

2) System Game play points (accumulated)—Current amount of System Game Play Points earned but not yet Spent. NOTE: The System Game Play Points may only be downloaded to the first card in. The second card may receive a System Game Play Points of 0

GAMENET SERVER:

The GAMENET SERVER may send down the following new information to the NT in the 107 transaction:

- System Game cash residual—cash already played before one System Game Play Point is earned. NOTE: The cash residual may only be downloaded to the first card in. The second card may receive a cash residual of 0
- 2) System Game play points (accumulated)—Current amount of System Game Play Points earned but not yet Spent. NOTE: The System Game Play Points may only be downloaded to the first card in. The second card may receive a System Game Play Points of 0
- 3) Game ID—36 digit GUID (Glo Unique ID)
- 4) Additional fields may be added for future support

The following transactions may be updated to include System Game Play Point Balance and Residual:

Transaction 003—PPS ACCOUNT STATUS INQUIRY
Transaction 053—CONFIRM OF AS/400 DEPST/
WITHDR

Transaction 096—PPS BALANCE TRANSACTION Transaction 198—PATRON THRESHOLD REACHED NT to iVIEW:

Carded Players

When the System Game Flag is set for either (0—Card In, or 2—Both) and the Auto Play flag is set to 0—patron select:

- a) The NT may instruct the iVIEW to display the System Game button.
- b) As the patron plays the base game, the NT may calculate and update the iVIEW of current System Game Play Points earned.
- c) Whenever the patron removes their card or abandon card occurs, the following additional fields may be included in the new System Game Play Point Transaction 228:
  - System Game cash residual—cash already played before one System Game Play Point is earned.
  - ii) System Game play points (accumulated during session)—Current amount of System Game Play Points earned but not yet Spent.

If the System Game button is pressed on iVIEW:

- a) The iVIEW may send the button press to the NT.
- b) The NT may instruct the iVIEW of all System Game parameters.

The following information is passed to the iVIEW when the patron presses the button:

1) Zone

40

- 2) Denomination
- 3) Card Level
- 4) Go to System Game Hub
- System Game play points (accumulated)—Current amount of System Game Play Points earned but not yet Spent.
- 6) Minimum System Game Play Points to play a System Game
  - NOTE: If response from the NT is not received by the iVIEW.bin, the system selection screen may not be displayed.
  - b) The iVIEW.swf may display a System Game Selection Screen that may display the contents of the SysGame-Config.xml and Pay table.xml file for each active System Game that includes:

- i) System Game type
- ii) Pay table for each Card Level (No Card, Low Level, Middle Level, and High)
- iii) System Game description
- 7) Once a System Game is selected
  - a) The iVIEW may run currently selected System Game.
    - i) Note that NT may continually send the iVIEW updated System Game Play Point calculations as the base game is played.
  - b) The System Game is playable when the minimum points to play is met.
  - c) When a System Game is played:
    - i) The iVIEW may report System Game play and results
- 8) Type of System Game—(Poker, Bingo, etc.)
- 9) Game ID—36 digit GUID (Glo Unique ID)
- 10) Result (Win/Loss)
- 11) System Game Play Points Spent
- 12) Win Amount (cash)
- 13) Hand Pay Flag (YIN)
- 14) System Game Cashable Flag
- 15) Random # Seed 1
- 16) Random # Seed 2
- 17) Random # Seed 3
- 18) Random # Seed 4
- 19) Pay Line that was hit (1-15)
- i) The NT may update it's current parameters.
  - (1) If result is a win amount that exceeds Hand Pay Limit
    - (a) System Game Play transaction 229 is sent up the system.
    - (b) The System Game Play Transaction includes:
- 20) Type of System Game—(Poker, Bingo, etc.)
- 21) Result (Win/Loss)
- 22) System Game Play Points Spent
- 23) Win Amount (cash)
- 24) Money Result (1=Hand pay)
- 25) Reason Code (Not Used)
- 26) System Game Cashable Flag
- 27) Random # Seed 1
- 28) Random # Seed 2
- 29) Random # Seed 3
- 30) Random # Seed 4
- 31) Pay Line that was hit (1-15)
- 32) System Game ID—36 digit GUID (Glo Unique ID)
- 33) Patron Account (Note: if account=000000000 the iSER-IES may not create eBONUS record)
- 34) Corp ID
- 35) Prop ID
- 36) Suffix
- 37) Card Type
- 38) Current NT meters
- 39) The Hand pay amount may display on the system game for 1 minute. After 1 minute the System Game may be enabled for game play.
- 40) System Game cash residual—cash already played before one System Game Play Point is earned.
- sion)—Current amount of System Game Play Points earned but not yet Spent.
- 42) Points Won
- 43) NOTE: The System Game play points and System Game cash residual may be cleared to 0 after the 229 transaction 65 is generated. The Balance may still be maintained on the NT.

78

- (1) If the result is a win amount that does not exceed Hand Pay Limit and the System Game Win Deposit is set to A.
- (a) System Game Play transaction 229 is sent up the system.
- (b) The System Game Play Transaction includes:
- 44) Type of System Game—(Poker, Bingo, etc.)
- 45) Result (Win/Loss)
- 46) System Game Play Points Spent
- 47) Win Amount (cash)
- 48) Money Result (0=iSERIES, 4=ePROMO)
- 49) Reason Code (Not Used)
- 50) System Game Cashable Flag
- 51) Random # Seed 1
- 52) Random # Seed 2
- 53) Random # Seed 3
- 54) Random # Seed 4
- 55) Pay Line that was hit (1-15)
  - 56) System Game ID—36 digit GUID (Glo Unique ID)
  - 57) Patron Account (Note: if account=0000000000 the iSER-IES may not create eBONUS record)
  - 58) Corp ID
- 20 59) Prop ID
  - 60) Suffix
  - 61) Card Type
  - 62) Current NT meters
  - 63) System Game cash residual—cash already played before one System Game Play Point is earned.
  - 64) System Game play points (accumulated during session)—Current amount of System Game Play Points earned but not yet Spent.
  - 65) Points Won

40

45

- 66) The System Game play points and System Game cash residual may be cleared to 0 after the 229 transaction is generated. The Balance may still be maintained on the NT. If the win is represented in Points, the NT may only send System Game winning points in the 229 transaction, the NT may only send ePROMO points earned on the card out transaction.
  - (a) The patron can select whether they wish to transfer their winnings to the base game or allow the winnings to be carried on their account.
- (b) If the patron chooses to collect their winnings onto the slot. The patron may press the collect button on the System Game. The iVIEW may inform the NT of the Collect Button press. The NT may send a request to the iSERIES. The iSERIES may send down the balance. The patron may be prompted with their balance and a enter amount field. The patron can select in whole dollars, how much they would like to transfer. Once, the amount is selected an EFT may be performed, the result of the EFT may be treated the same way our EFT works today, only with different transactions.
- (i) If the meter verifies the NT may send up a 226 transaction with subcode 000,
- (ii) If the transfer was ok but the meter does not verify, the NT may send up a 230 System Game Withdraw Tilt transaction.
- (iii) If the transfer was rejected by the MPU the NT may send up a 226-1 System Game Void transaction followed by a 227 System Game Transfer Not Available transaction. with a subcode representing why the MPU did not accept the transfer.

If the result is a win amount that does not exceed Hand Pay 41) System Game play points (accumulated during ses- 60 Limit and the System Game Win Deposit is set to G. The Winning may automatically be transferred to the base game at the time of win. If the transfer is successful a 229 transaction is generated with Money Result field 2 (Game), if the transfer is unsuccessful a 229 transaction is generated with Money Result field 0 (iSERIES)

> At this point the patron can continue to play the base game and earn more System Game Play Points, continue to play

79

System Game if he/she still has System Game Play Points to Spend, or pull out his/her card.

When the System Game Flag is set for either (0—Card In, or 2—Both) and the Auto Play flag is set to 1—Auto Play:

At card in, the NT may instruct the iVIEW of all default System Game parameters. The following information is passed to the iVIEW:

- 1) Zone
- 2) Denomination
- 3) Card Level
- 4) Go to Default System Game
- System Game play points (accumulated)—Current amount of System Game Play Points earned but not yet Spent.
- 6) Minimum System Game Play Points to play a System Game

As the patron plays the base game, the NT may calculate and update the iVIEW of current System Game Play Points earned. The System Game may display the percentage of System Game Play Points earned. For example, if poker is the System Game, and it take 10 points to play the System Game. The patron may see the back of  $2\frac{1}{2}$  cards when they he earned 5 System Game Play Points. Once they earn another 5 points, the System Game may start automatically.

Whenever the patron either removes their card or abandon card occurs, the 228 transaction may contain the following additional fields:

- i) System Game cash residual—cash already played before  $_{\ 30}$  one System Game Play Point is earned.
- System Game play points (accumulated during session)—Current amount of System Game Play Points earned but not yet Spent.
- b) The process from this point is the same as Patron Select  $\,$  35 above.

NT to iVIEW:

Non-Carded Players

When the System Game Flag is set (1—No Card In, 2—Both), Auto Play may only work in this mode.

As soon as the handle meter steps, the NT may instruct the iVIEW of all default System Game parameters. The following information is passed to the iVIEW when the patron presses the button:

- 1) Zone
- 2) Denomination
- 3) Card Level (This parameter may not be used)
- 4) Go to Default System Game
- System Game play points (accumulated)—Current amount of System Game Play Points earned but not yet Spent.
- 6) Minimum System Game Play Points to play a System Game

As the patron plays the base game, the NT may calculate and update the iVIEW of current System Game Play Points earned. The System Game may display the percentage of System Game Play Points earned. For example, if poker is the System Game, and it take 10 points to play the System Game. 60 The patron may see the back of  $2\frac{1}{2}$  cards when they he earned 5 System Game Play Points. Once they earn another 5 points, the System Game may start automatically. If the player does not play the Base Game for the length of time the iSERIES has set, the System Game may be terminated immediately. 65 The system game may not be interrupted by idle messages sent from iSERIES.

80

New iVIEW Files:

Two sets of files that get downloaded with the normal download procedure.

- a) System Game SWF's may use SWF IVIEW ShowNumber's 300-321.
- b) SysGameConfig.xml may be assigned IVIEW Show Number 119.
  - i) May use an XSD to ensure xml file is valid before loaded to floor
  - ii) May include:
    - (1) System Game name
    - (2) System Game ID—36 digit GUID (Glo Unique ID)
    - (3) IVIEW Show Number per System Game
    - (4) Enable/disable by card level
    - (5) Enable/disable by zone, denomination
  - (6) System Game description
- c) Pay table.xml
  - i) May be assigned IVIEW Show Number 120
- ii) May use an XSD to ensure .xml file is valid before loaded to floor
- iii) May include:
  - (1) System Game name
  - (2) System Game ID—36 digit GUID (Glo Unique ID)
  - (3) Pay table per System Game for both Cash and Points for each Card Level (No Card, Low, Middle, and High)

Pay table.xml may be handle and signed by. It may be downloaded via SMS Download Utility and may only be downloaded to the Gamenet as long as the MD5 file is validated.

iVIEW details:

- 1) The iVIEW may log the results of the last 50 System Games played.
- 2) The iVIEW may have battery backed up Ram for buffering information for when communication between the NT is down.
- 3) The iVIEW may have a button on the dashboard or in eCASH for Collect System Game Winnings. This way the patron can withdraw their winnings to the slot when System Game is disabled.

Example System Game Play Result

Type of System Game—30 bytes ASCII

Result—1 byte binary

0=Loss

1=Win

System Game Play Points Spent—4 bytes binary

Win Amount (cents)—8 bytes binary

Money Result—1 byte binary

0=iSERĬES

- 1=Hand pay
- 2=Game
- 3=Tilt—
- 4=ePROMO
- 5=Loss

Reason Code—1 byte binary

- 55 6=Unconfirm
  - 7=Reset

System Game Cashable Flag—1 byte binary

Random # Seed 1-2 bytes binary

Random # Seed 2-2 bytes binary

Random # Seed 3-2 bytes binary

Random # Seed 4-2 bytes binary

Pay Line-1 byte binary

System Game ID—36 digit GUID (Glo Unique ID)—36 bytes ASCII

Coin In—2 bytes

Coin Out—2 bytes

Hand pay-2 bytes

Handle Pulls—2 bytes

Coin Drop-2 bytes

Lucky Star-2 bytes

Coin Paid—2 bytes

Hand Paid—2 bytes

\$1 Bills—2 bytes

\$5 Bills—2 bytes

\$10 Bills—2 bytes

\$20 Bills—2 bytes

\$50 Bills—2 bytes

\$100 Bills—2 bytes

Promo In—2 bytes

Val Drop Door-2 bytes

Val Drop Box—2 bytes

EFT In—2 bytes

EFT Out-2 bytes

Promo Cash—2 bytes

Redeem Count MSB-2 bytes

Print Count MSB-2 bytes

Spare1—2 bytes

Spare2—2 bytes

Sequence Number—2 bytes

Patron Account—9 bytes (ASCII)

Corp Id—1 byte (ASCII)

Prop Id—1 byte (ASCII)

Card Type—2 bytes (ASCII)

Suffix—2 byte (ASCII)

System Game Cash Redidual—4 bytes binary

System Game Play Points Earned—4 bytes binary

Points Won—8 bytes binary

Example SMS Transactions from NT to Gamenet:

Request for System Game Balance

Withdraw System Game Winnings

System Game Withdraw Confirmed

System Game Withdraw Void

System Game Withdraw Not Available

System Game Play Points Earned Transaction

System Game Play Result Transaction

System Game Withdraw Failed

No Confirm with MPU

Reset during applying credits

Example SMS Transactions from System to NT:

Set Coin Residual

Set Validator Parameters

Download SMS Patron Promo/Service Key Options

Send iVIEW Files immediate

System Game Balance Available

System Game Sufficient/Insufficient Funds

System Game NT Configuration

Gamenet Server System Game Configuration

Referring to FIG. 68,

Bally Technologies encrypted number of assets generation is illustrated with panel **6800**:

Bally Technologies support personal, verifies that the customer requesting the encrypted number of assets has the right to use the Bally-Live-Rewards feature, if the customer has the right to use the feature, they verify the number assets (slot machines) the customer has the right to use the Bally-Live-Rewards feature on. These verifications should be retrieved 65 from the customers Project Manager or their Sales representative.

To generate the encrypted number of assets values:

Access the program AVPR#ASSET and select the Bally-Live-Rewards feature:

82

Enter the customers Corporate ID:

5 Enter the customers Property ID:

Enter the customer's iSERIES serial number:

Enter the date (MM/DD/YY) that this control value is to expire; 99/99/99 indicates expiration date of Dec. 31, 2069 (highest date system can support).

Enter the number of assets that this customer is allowed to utilize the Bally-Live-Rewards on; 99999999 indicates unlimited number of assets.

Press F13 to generate the encrypted value.

This encrypted value should now be sent to the customer 15 (e-mail), so that the customer can apply this encrypted value to their iSERIES.

Referring to FIG. **69** 

Bally-Live-Rewards Asset Controls are illustrated at panel 6900:

Bally-Live-Rewards feature requires License Key SMS-015 to be active, and the encrypted number of valid assets must be set. Follow normal license key installation procedures to apply the SMS-015 license key. Once the required license key is activated, the user must set the encrypted number of the set of the encrypted number of the set of the set of the encrypted number of the set of

25 ber of valid assets, before activating the Bally-Live-Rewards feature. This procedure is as follows:

The customer receives the encrypted number of valid assets for the Bally-Live-Rewards feature.

To apply the encrypted value: From the Main ACSC Menu, select option 50-SMS System Control Menu.

FIG. **70** is a screenshot **7000** of the ACSC iSERIES Live Rewards administration page. This is where the player assigns specific Asset numbers (EGMS or game devices) to run Live Reward System Games. This is also where the encrypted license management keys are entered.

From the first Bally-Live-Rewards activation screen select the mode to Maintain Asset Controls, and press the F7 key. Bally-Live-Rewards Asset Controls:

Bally-Live-Rewards feature requires License Key SMS-40 015 to be active, and the encrypted number of valid assets must be set. Follow normal license key installation procedures to apply the SMS-015 license key. Once the required license key is activated, the user must set the encrypted number of valid assets, before activating the Bally-Live-Rewards 45 feature. This procedure is as follows:

The customer receives the encrypted number of valid assets for the Bally-Live-Rewards feature.

To apply the encrypted value:

On the Apply encrypted number of assets screen enter the encrypted value that you received from Bally Support department

FIG. 71 is a screenshot of panel 7200, the ACSC iSERIES Live Rewards administration page where a the casino applies the encrypted number of valid assets to Run Live Rewards.

55 Likewise, FIG. 72 is a screenshot of panel 7300, the ACSC iSERIES Live Rewards administration page where the total number of Asset licenses available and unused are shown. FIG. 73 is screenshot of panel 7300 of the ACSC iSERIES Live Rewards administration page where the site can main-

FIG. 74 is screenshot of panel 7400 of the ACSC iSERIES Live Rewards administration page where the site can maintain assets allowed to be part of the System Games. This site has a 5000 licenses available to be assigned.

FIG. **75** is a screenshot of panel **7500** of the ACSC iSER-IES Live Rewards administration page where the site can

maintain assets allowed to be part of the System Games. This site has a 5000 licenses available to be assigned. The site is assigning a specific asset number of 525 to be allowed to run the Live Rewards system game product.

FIG. **76** is a screenshot of panel **7600** of the ACSC iSER-IES Live Rewards administration page where the site can control various global features.

FIG. 77 is the database schema 7700 for the Live Rewards Server. This database schema 7700 illustrates the relationships between the various data elements in the following table:

| PlayerTypes         7701           PayTableSets         7702           GameMaster         7703           GameSettingsMaster         7704           PayTables         7705           PayLevels         7706           PayLevels         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGamesHistory         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewData         7727           iViewDataHistory         7730          | Data                     | Ref. No. |
|---|--------------------------|----------|
| GameMaster         7703           GameSettingsMaster         7704           PayTables         7705           PayLevels         7706           PayLevels         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSets         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerSamnedHistory         7715           PlayerBannedHistory         7715           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         773     | PlayerTypes              | 7701     |
| GameSettingsMaster         7704           PayTables         7705           PayLevels         7706           PayLevels         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBannedHistory         7717           PlayerGames History         7717           PlayerGames History         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTansactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History | PayTableSets             | 7702     |
| PayTables         7705           PayLevels         7706           PayLevelAwards         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSets History         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732   | GameMaster               | 7703     |
| PayLevels         7706           PayLevelAwards         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  |                          | 7704     |
| PayLevelAwards         7707           PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732   | PayTables                | 7705     |
| PrizeTypes         7708           GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTansactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  | PayLevels                | 7706     |
| GameSettingsLevels         7709           PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGames History         7717           PlayerGames         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732   | PayLevelAwards           | 7707     |
| PlayerActivity         7710           ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  | PrizeTypes               | 7708     |
| ActivePayTableSets         7711           ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerMaster         7718           PlayerGames         7719           SessionBuckets         7720           Player Transactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  | GameSettingsLevels       | 7709     |
| ActivePayTableSetsHistory         7712           PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  | PlayerActivity           | 7710     |
| PlayerSettings         7713           SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTansactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732  | ActivePayTableSets       | 7711     |
| SessionBucketsHistory         7714           PlayerBannedHistory         7715           PlayerBuckets         7716           PlayerGamesHistory         7717           PlayerGames         7718           PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732   | ActivePayTableSetsHistor | ry 7712  |
| PlayerBannedHistory       7715         PlayerBuckets       7716         PlayerGamesHistory       7717         PlayerMaster       7718         PlayerGames       7719         SessionBuckets       7720         Player Transactions       7721         SessionMaster       7722         GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChanges History       7732  | PlayerSettings           | 7713     |
| PlayerBuckets       7716         PlayerGamesHistory       7717         PlayerMaster       7718         PlayerGames       7719         SessionBuckets       7720         PlayerTransactions       7721         SessionMaster       7722         GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732   | SessionBucketsHistory    | 7714     |
| PlayerGamesHistory       7717         PlayerMaster       7718         PlayerGames       7719         SessionBuckets       7720         PlayerTransactions       7721         SessionMaster       7722         GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732  | PlayerBannedHistory      | 7715     |
| PlayerMaster       7718         PlayerGames       7719         SessionBuckets       7720         PlayerTransactions       7721         SessionMaster       7722         GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChanges History       7732   | PlayerBuckets            | 7716     |
| PlayerGames         7719           SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChanges History         7732   | PlayerGamesHistory       | 7717     |
| SessionBuckets         7720           PlayerTransactions         7721           SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChangesHistory         7732   | PlayerMaster             | 7718     |
| PlayerTransactions       7721         SessionMaster       7722         GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732   | PlayerGames              | 7719     |
| SessionMaster         7722           GameHistoryLog         7723           GameHistoryLogDetails         7724           PrizeTypeMap         7725           iViewMaster         7726           iViewData         7727           iViewDataHistory         7728           UserSessionLog         7729           UserMaster         7730           GlobalSettings         7731           UserChangesHistory         7732   | SessionBuckets           | 7720     |
| GameHistoryLog       7723         GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732  | PlayerTransactions       | 7721     |
| GameHistoryLogDetails       7724         PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732  | SessionMaster            | 7722     |
| PrizeTypeMap       7725         iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732   | GameHistoryLog           | 7723     |
| iViewMaster       7726         iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732   | GameHistoryLogDetails    | 7724     |
| iViewData       7727         iViewDataHistory       7728         UserSessionLog       7729         UserMaster       7730         GlobalSettings       7731         UserChangesHistory       7732  | PrizeTypeMap             | 7725     |
| iViewDataHistory7728UserSessionLog7729UserMaster7730GlobalSettings7731UserChangesHistory7732  | iViewMaster              | 7726     |
| UserSessionLog 7729 UserMaster 7730 GlobalSettings 7731 UserChangesHistory 7732   | iViewData                | 7727     |
| UserMaster 7730<br>GlobalSettings 7731<br>UserChangesHistory 7732   | iViewDataHistory         | 7728     |
| GlobalSettings 7731<br>UserChangesHistory 7732  | UserSessionLog           | 7729     |
| UserChangesHistory 7732   | UserMaster               | 7730     |
| 0 ,   | GlobalSettings           | 7731     |
| SetupData 7733  | UserChangesHistory       | 7732     |
|   | SetupData                | 7733     |
| HandPayDetails 7734   | HandPayDetails           | 7734     |
| HandPayTypes 7735   | HandPayTypes             | 7735     |
| HandPayMaster 7736  | HandPayMaster            | 7736     |
| ReportConfig 7737   | ReportConfig             | 7737     |
| EGMActivity 7738  | EGMActivity              | 7738     |
| Notifications 7739  | Notifications            | 7739     |
| EventLog 7740   | EventLog                 | 7740     |
| TranTypes 7741  | TranTypes                | 7741     |
| SourceTypes 7742  |                          | 7742     |

The database schema **7700** represents one embodiment of a database schema suitable for implementation of a database for tracking rewards data, accounting data, player activity, game activity, and many other features. Other embodiments of such a database and other configurations or schema may be 55 used in other embodiments of gaming systems.

Various processes may be implemented in the embodiments described herein. The following processes provide further details of operation of one embodiment of a gaming system and components in the system. FIG. **78** (FIGS. **78-1**, 60 **78-2** and **78-3**) is a flowchart of the Boot-up recovery process of the live rewards games on iVIEW. Process **7800** initiates at module **7805**, and at module **7810** the console boots up. At module **7815**, a determination is made as to whether the NVRAM was left in a Tilt State (e.g. the game was potentially tampered with). If yes, at module **7820** a message is displayed indicating the corrupted state, and the process terminates with

84

module **7822** (the machine is not playable). If the NVRAM is not in a tilt state, then the console sends a registration message to the GMU at module **7825**. It is determined at module **7830** if the registration message returned successfully. If not, then at module **7835** the game displays a message indicating the GMU is unavailable, and the system waits while retrying the GMU.

With the GMU registration completed, the console registers an iView ID with an SGS server at module 7840 and retrieves settings at module 7840. Note that the process can be started at this point when the system causes the machine to enter this process at module 7842. At module 7850, it is determined whether the iView registration succeeded. If not, at module 7852 the tilt games message is displayed, indicating the games are unavailable. At module 7854, a determination is made as to whether the player played the base game. If so, the process shifts to the legacy attract mode via module **7860**. If the base game was not played, it is determined 20 whether a player tracking card was inserted at module **7856**. If so, the process shifts to the player tracking card inserted process via module 7858. If not, it is determined whether an employee card was inserted at module 7844. If so, the process shifts to the employee card inserted override process at mod-25 ule **7846**, and the process attempts iView registration again at module 7840 otherwise.

With a successful iView registration, the console calls Get\_Server\_Time at module 7848 and determines at module 7862 if there is an open session available. If not, the process 30 shifts to the legacy attract mode via module **7860**. If so, it is determined whether there are any non-Zero PP or TC buckets (do players have points or other saved data on the game). If so, at module 7868, the saved data is deposited (e.g. points or winnings) at the server at module 7868. At module 7870, it is 35 determined whether any open withdrawals still exist. If so, AFT status is checked (whether the status is known) at module 7872. If not, the game requires a fix by an attendant (e.g. to determine status) and the games unavailable message is displayed at module 7874 with the process terminating at module **7890**. If the AFT status of any withdrawal(s) is known, at module **7876** the withdrawal(s) are terminated, either with a Commit or a Rollback as appropriate.

If there are no open withdrawals, at module **7878** it is determined whether there are any open Handpays, and if so, at module **7880**, the Handpay is ended with a message to the server indicating that the Handpay was not paid. The process then moves to a determination as to whether any open games are present at module **7882**. If so, at module **7884**, the game is ended, either with a score or with no score if the game was incomplete. At module **7886**, the machine sends a message indicating a recovery was accomplished, and the process then moves to the legacy attract mode via module **7860**.

Another process implemented in some embodiments of the system is the attract mode process. FIG. 79 is a flowchart of the Attract mode logic. Process 7900 initiates at module 7905 and shows a legacy attract sequence at module 7910. It determines at module 7915 if a player tracking card was inserted. If so, it determines whether uncarded play points need to be saved at module 7945, and sends the uncarded play points to the server at module 7950. The process then shifts to the player card inserted process via module 7960.

If no player card is inserted, then at module **7920**, the machine determines if it needs to save uncarded play points. If so, then at module **7970**, the process determines whether the player is playing a base game. If so, the console adds the play points and TC to an internal counter. The process then moves to module **7930**, and a determination is made as to

whether the machine needs to get settings. If so, it gets settings at module **7940**. The process then returns to module **7910**.

Another process is used in some embodiments when the player card is inserted. FIG. 80 is a flowchart of what happens 5 at Player Card insertion time. Process 8000 starts at module 8005. At module 8010, it is determined whether the iView is registered and active. If not, the process shifts to the legacy player process via module 8015.

If so, it is determined whether the player is at the Handpay screen at module **8020**. If so, then at module **8040**, the process determines if the same card is associated with the Handpay (or has a different card been inserted). If so, the console stays at the Handpay screen at module **8050**, and shifts to the jurisdictional handpay process via module **8055**. If a different card is involved, then at module **8060**, the handpay process is rolled back and at module **8070** the session for the previous card is closed.

The process then moves to module **8030**, and a new session is created. The console also sends the game data to the server 20 at module **8080**. The process then shifts to the legacy player process via module **8015**.

Another process used in some embodiments is the legacy attraction process or legacy player pages. FIG. 81 is a flow-chart of what happens when the player interacts with the 25 Legacy Player Pages. Process 8100 initiates at module 8105 and proceeds to module 8110 where the main legacy page or screen is displayed. At module 8115, it is determined whether the player pressed a legacy button. If so, then at module 8150, the legacy menu shows the proper page and the legacy system operates. If not (no legacy button pressed), then at module 8120 it is determined whether the iView system is registered and active. If not, then at module 8125 it is determined whether the player has pressed a "Play Game" or similar button. If not, then at module 8140, it is determined whether 35 the player has removed the player card. If so, the process transitions to the player card removed process via module 8145

If the player card has not been removed, the process returns to the determination of module **8115** (whether a legacy button 40 was pressed). If the player did press a "Play Game" or similar button as determined at module **8125**, the process moves to module **8130** and the games unavailable screen is shown. At module **8135**, the game continues its attempts to register with iView or the rewards system and returns to the determination 45 of module **8115**.

If iView or the rewards system is registered and active at module **8120**, the process determines at module **8155** whether the player session is open. If not, the console attempts to open the player session at module **8160**. If the player session is still 50 not open at module **8165**, the process moves to the determination at module **8125**. If the player session is open at either modules **8155** or **8165**, then the process determines at module **8170** whether the current player is banned. If so, then at module **8172**, the process determines whether the player has 55 attempted to play the game (e.g. pressing a "Play Game" button). If so, a screen is displayed at module **8174** indicating the player cannot play and should see customer service (e.g. stating the player card is inactive). The process then returns to module **8115**.

If the player is not banned, then at module **8176** it is determined whether the player has attempted to start the game. If so, the process transitions to the system game console main screen process via module **8178**. If the player has not started the game, then it is determined whether the player 65 has navigated on iView at module **8180**. If not, at module **8185**, the threshold for the next game on iView is checked. If

86

the threshold is exceeded, then a time counter of 30 seconds is checked to see if the time has elapsed at module **8190**. If so (the time has elapsed), the process transitions to the system game console main screen process via module **8178**. If the time has not elapsed (at module **8190**), if the threshold has not been met (at module **8185**) or if the player has not navigated iView (at module **8180**), then a determination is made at module **8195** as to whether the player has removed their card. If yes, the process transitions to the player card removed process via module **8145**. If no, the process returns to the determination at module **8115**.

The system game console main screen provides the process which operates games on the machines within the system. FIG. 82 is a flowchart of what happens on the System Game Console Main game screen. Process 8200 initiates with start module 8205 and determines at module 8210 whether any jurisdictional buckets are non-zero (greater than zero). If not, then at module 8212, the console shows cash winnings in the winnings box. If so, then at module 8214, the console shows the jackpot in the winnings box. The console then shows the main screen at module 8216. At module 8220, it is determined whether the player tracking card has been removed. If so, the process transitions to the player tracking card removed process via module 8222.

If the player tracking card is present, then at module 8224 it is determined whether the player account button has been pressed. If so, the process transitions to the legacy pages process at module 8226 to allow access to account information. If not, it is determined at module 8228 whether more than 1 game is available to the player. If so, then at module 8230, it is determined whether the player has pressed the next game button or a similar indicator. If so, at module 8235, the next game is displayed (in a loop of games) and the process returns to module 8216. If not (no next game button pressed), then at module 8240, it is determined whether the player pressed a last game or previous game button or indicator. If so, the previous game in a loop is shown at module 8245 and the process returns to module 8216.

If not (no previous game request), or if only one game was available at module **8228**, then at module **8250** it is determined whether the player has any cash winnings. If the player has cash winnings, it is determined at module **8255** whether the player has requested collection of the winnings. If so, then the process transitions to the collect pressed process at module **8260** to allow the player to collect winnings. If not, or if the player had not cash winnings, it is determined at module **8265** whether the player requested help. If so, the process transitions to the help/pays process via module **8267**.

At module **8270**, a determination is made as to whether the player pressed the game button (play a game, etc.) If so, at module **8275**, the console loads the game and the process transitions to the game flow process at module **8277**. If no game button press, the process determines at module **8280** whether the player has requested to play the base game. If not, the process returns to module **8216**. If so, the process plays the base game and at module **8285** tracks the base game in relation to accrual of player points and winnings. At module **8290**, the console adds the player points to the player's winnings and at module **8295**, the console displays the player's points and rewards level. The process then returns to module **8216** and display of the system game page.

In the operation of the system, help may be requested by a player. FIG. 83 is a flowchart of what happens when the player enters the Help/Rewards pages on the iView. Process 8300 initiates at module 8305. At module 8310, it is determined whether the player is viewing a rewards page. If so, then at module 8340, the appropriate paytable is shown. If the

player requests help, this is determined at module 8345, and the first help page is shown at module 8347. If the player is viewing the rewards page but is not requesting help, the player can navigate the rewards page, with a left or right arrow press determined at module 8350 (and corresponding page display at module 8355), and a similar up or down arrow press determination at module 8365 (and corresponding page display at module 8367). Each of these processes then return to module 8310.

If the player removes the tracking card at module **8370**, the process transitions to the player card remove process via module **8337**. If the player does not navigate and does not remove the player tracking card, a determination is made at module **8380** whether the player closed the rewards page. If not, a determination is made as to whether the player played 15 the base game at module **8375**. If the player did not play the base game, the process returns to module **8310**. If the player did play the base game, or closed the rewards panel, then at module **8385** it is determined whether the system console launched the help page. If not, the process transitions to the 20 game flow process via module **8395**. If so, the process transitions to the system game main screen at module **8390**.

If, at module **8310**, the player is not viewing a rewards page, then at module **8315** the first help page is shown. At module **8320**, it is determined whether a player rewards button was pushed. If so, at module **8325**, the current rewards level is shown. If not, then at module **8330**, it is determined whether the player is navigating the help pages (e.g. left or right arrow pushed). If so, the next help page corresponding to the navigation is displayed at module **8360** and the process returns to module **8310**. If not, it is determined whether the player removed the card at module **8335**. If so, then the process transitions to the player card remove process via module **8337**. If not, the process moves to module **8380** to determine if the player closed the help screen.

Another process which may be executed in the various embodiments is the game play process. FIG. 84 is a software flowchart of what happens during the game play process. Process 8400 initiates with module 8405, and proceeds to module 8407 where the game is started. Module 8407 illus- 40 trates loading of the game, and at module 8410, it is determined whether the game has loaded. If no, then at module 8428, it is determined whether the player is playing the base game. If so, the process transitions to the game flow process (for the base game) via module **8448**. If not, it is determined 45 whether the player removed the player card. If so, then at module 8452, the process transitions to the player card removed process via module 8452. If not, it is determined whether the player accessed the menu. If so, the process transitions to the system game console main screen process 50 via module 8456. If not, at module 8458, it is determined whether the console sent a menu press, hide, or unload game command. If it did, then the process transitions to the system game console main screen process via module **8456**. If not, then at module 8430 it is determined whether the player 55 accessed the rewards information. If so, then at module 8430 the process transitions to the help/rewards (or pay) process via module 8432. Otherwise, the process loops back to loading the game and checking for loading at module 8410.

Once the game is loaded, at module **8412**, the game sends 60 a begin game message to the console or machine. At module **8414**, the points and cash in the player account is transferred to the server. At module **8416**, the required points and cash are deducted or reserved. At module **8418**, the process determines if the game is responding. If not, at module **8420**, the 65 process determines if the response has failed three times. If not, the process loops back to module **8416**. If the time out has

88

occurred three times, the process moves to module **8422** and the games unavailable message is displayed. If the game does not time out, at module **8424**, it is determined whether the game response failed. If so, the process likewise moves to module **8422**. If the process fails and gets to module **8422**, on the other hand, the process transitions to the server connection lost process via module **8446**.

If not (the game response succeeded), the process returns a good game response at module **8426** and the game plays per individual specifications at module **8434**. Eventually, the game sends an endgame message to the console at module **8436** and the console saves the state in NVRAM at module **8438**. At module **8440** the console returns an award string for display, at module **8442** the console sends an end game message to the server with the winnings, and at module **8444** the game finishes and shows the results to the player.

At module **8460**, the game continues to show its last results. At module **8462**, it is determined whether the player has played the base game. If so, then the process transitions to the game flow via module **8448**. If not, at module **8464**, it is determined whether the player requested the menu. If so, the process transitions to the system game console main screen via module **8456**. If not, at module **8466**, it is determined whether the player touched the game over dialog box. If not, then at module **8468** it is determined whether the console sent a menu press, hide, or unload game command. If it did, then the process transitions to the system game console main screen process via module **8456**. If not, the process returns to module **8460**.

If the player did touch the game over dialog box at module **8466**, then at module **8470** the game checks whether show results was sent, and sends it if necessary, then waits a delay before sending a collect message to the console. At module **8472**, it is determined whether the prize is bonus points only. If not, the process transitions to the cashout pressed process via module **8476**. If so, the console sends messages to the game indicating the points have been added, and the process transitions to the game flow process via module **8448**.

In general, the cashout pressed process handles cashing a player out. FIG. **85** is a software flowchart of what happens during the cash out process. The process **8500** initiates at module **8502**, and at module **8504** sends a query as to whether a player is locked. At module **8506**, a determination is made as to whether the player is locked. If yes, the console tells the player to see customer service at module **8508** and the process transitions to the system game console main screen via module **8510**. If not, the process shows a PIN interface to the player at module **8512**.

If the player cancels, this is determined at module **8514**, and the process transitions to the system game console main screen via module **8510**. If the player removes the player card, this is determined at module **8516**, and the process transitions to the player card removed process via module **8518**. Otherwise, the process determines if a PIN has been entered at module **8520**, and waits for a PIN cycling through modules **8514** and **8516**.

With the PIN entered, the process sends a validate PIN message to the server at module **8532**. At module **8534**, the server attempts to validate the PIN and returns a corresponding message. At module **8536**, it is determined whether the PIN is good. If not it is determined at module **8538** whether the player is now locked out. If so, then at module **8540** a message is displayed telling the player the account is locked, and to either wait or see customer service. The process then transitions to the system game console main screen via module **8510**.

If the player is not locked out, a message is displayed giving the player another chance at module **8530** and it is determined whether the player pressed a re-enter button at module **8524**. If so, the process returns to module **8512** and display of the PIN pad. If not, it is determined if the player 5 cancelled at module **8526**. If yes, the process transitions to the system game console main screen via module **8510**. If no, it is determined whether the player removed the player card at module **8528**. If yes, the process transitions to the player card removed process via module **8518**. If no, the process loops 10 back to module **8524**.

If the player enters a valid PIN, then at module **8542** it is determined whether the player has both a regular cashout and a jackpot. If not, if the player has only a regular cashout at module **8554**, the process transitions to module **8544** via 15 module **8546** (this will be detailed below). If so jackpot only) the process transitions to the jurisdictional handpay process via module **8522**.

If the player has both a jackpot and a cashout amount, a variety of options are displayed at module **8548**. At module **8550**, it is determined whether the player requested collection of the regular win. If not, at module **8556**, it is determined whether the player requested the jackpot payout. If so, the process transitions to the jurisdictional handpay process via module **8522**. If not, it is determined whether the player cancelled at module **8558**. If yes, the process transitions to the system game console main screen via module **8510**. At module **8560**, it is determined whether the player removed the player card. If so, the process transitions to the player card removed process via module **8518**. If the player did not cancel or remove the player card, the process loops back to module

If the player requests payment of the regular win amount at module **8550**, at module **8552** options are displayed allowing the player to withdraw a desired amount. Likewise, module **35854** takes the process to module **8552**. If the player selects an amount, this is determined at module **8562**, and the process transitions to the regular cashout process via module **8564**. If the player has not selected an amount, cancellation can be detected at module **8566** and card removal can be detected at module **8568**. If the player cancels, the process transitions to the system game console main screen via module **8510**. If the player removes the card, the process transitions to the player card removed process via module **8518**.

Another process frequently used is the regular cash out 45 process. FIG. 86 is a software flowchart of what happens during a regular cash out procedure. Process 8600 initiates with module 8602, and then proceeds to a determination of whether a player entered a valid cash amount at module 8604. If not, at module **8618**, the player is told the amount is not 50 valid and offered the chance to select again. The process then checks whether the player chose to re-enter, cancel, or remove the player card. At module 8620, it is determined whether the player chose to re-enter an amount. If so, the process transitions to the cashout pressed process via module 8630. At 55 module 8622, it is determined if the player cancelled the process. If so, the process transitions to the system game console main screen via module 8628. At module 8624, it is determined whether the player removed the player card. If so, the process transitions to the card removed process via module 8626. If not, the process loops back to module 8620, to allow for one of cancellation, re-entry or removal of the player card.

If the player entered a valid cash amount, at module **8606** the console shows a transfer to the primary game. At module 65 **8608**, the console requests the withdrawal from the server. At module **8610**, the console initiates the transfer. At module

90

**8612**, a determination is made as to whether the transfer status was unknown. If so, at module **8614**, a tilt mode is entered, and the player is advised to request service. The process then terminates at module **8616**.

If the transfer status is not unknown, at module **8634**, it is determined whether the transfer was successful. If so, then at module **8644**, a message indicating a successful transfer is displayed. If not, then at module **8636** it is determined whether the transfer was partially successful. If so, at module **8642**, a message describing the partial transfer is displayed. In either case, the process then moves to module **8646**, and commits the transfer. At module **8632**, it is determined if the player removed the player card. If so, the process transitions to the player card removed process via module **8626**. If not, the process transitions to the system game console main screen via module **8628**.

If the transfer is not even partially successful, then at module 8638, it is determined whether the player card was removed. If so, the process transitions to the player card removed process via module 8626. Otherwise, it is determined whether the fail code indicates the transfers will never work (e.g. the system is down) at module **8640**. If not, then at module 8650, it is determined if the transfer was attempted three times. If the transfer was attempted three times, or if the fail code indicates the transfer will never work, then at module 8656 a message is displayed indicating the transfer failed and the player can either continue playing or collect by hand. Collecting winnings later (continuing to play) is addressed below. If the player presses a call attendant button, then at module 8660 the console ends the withdrawal indicating the withdrawal was cancelled, and the process transitions to the jurisdictional handpay process via module 8662. If the player removes the card, then at module 8658 the console ends the withdrawal indicating the withdrawal was cancelled, and the process transitions to the player card removed process via module **8626**.

If the transfer has failed but fewer than three times (module **8650**), and may still succeed (module **8640**) then at module **8652**, a message is displayed indicating failure and a reason for failure, such as Game Full or Game Busy is provided, along with the option to try again or collect winnings later. If the selection is collect winnings later, then at module **8654**, the transfer is cancelled and rolled back. The process then transitions to the system game console main screen process via module **8628**. Note that module **8654** may also be reached from module **8656** as a result of a similar choice to collect winnings later.

If, at module **8652**, the player card is removed, the process ends the withdrawal at module **8648** and then transitions to the player card removed process at module **8626**. If the player tries the withdrawal again from module **8652**, the process returns to module **8610** and attempts the transfer again.

One of the options for paying winnings is a jurisdictional handpay. FIG. 87 is a software flowchart of what happens during a jurisdictional Hand pay. Jurisdictional payouts at the gaming device for awards won by playing games on iVIEW. Hand Pay for these types of wins. (See FIG. 19, FIG. 20, FIG. 30). These are for hand payments for bonus game awards over the jurisdictional amount (typ. \$1200) on the iVIEW. This differs from Base Game hand payouts which are logged in the base game. FIG. 30 shows where this value is configured at the Server. Any game award payout over this amount will trigger a hand pay event for this dollar amount. To collect this amount the player must do a hand pay on any iVIEW on the floor. We hand pay the amount wherever the player tries to collect the winnings. Slot machines lock up only the specific machine that the award occurred upon. So even if a player

won \$1500 on one machine and pulled his card and went to another machine and inserted his card and tried to collect the winnings, This player would have to have the amount Hand paid verses being allowed to AFT to the base game. We maintain the jurisdictional buckets for the player independent of the device he played upon.

Process 8700 initiates with module 8705 and the console shows the handpay amount at module 8710. At module 8715, the console sends a message to the server to start the handpay process. At module 8720, the console sends a further message for tracking of the handpay. At module 8730, it is determined whether the player cancelled. If so, then at module 8445, the handpay process is cancelled with a zero transaction amount, and the process transitions to the system game console main process via module 8750. Alternatively, at module 8735, the player card may be removed, in which case the process transitions to the player card removed process at module 8740. If the player neither cancels nor removes their card, pressing the attendant call button should transition the process to module 8755.

At module **8755**, the process initiates and at module **8760**, it is determined whether the player has inserted their card. If so, then the process transitions to the player card inserted process via module **8790**. If not, it is determined at module **8765** whether an employee has inserted their card. If not, the process returns to module **8760**. If so, the process determines whether the GMU is working at module **8770**. If not, the employee takes the machine out of service until the connection is fixed and processes the handpay at the cage at module **8788** 

If the GMU is working, then at module **8772**, the gaming machine displays the handpay information. At module **8774**, it is determined whether the employee removed their card. If so, then at module **8776**, the process transitions to the initiation module **8755**. If not, at module **8778**, it is determined 35 whether the employee cancelled the handpay. If so, at module **8784** the game awaits removal of the employee card, and at module **8786**, the process transitions to the jurisdictional handpay, employee cancel process. If the employee did not cancel, it is determined whether the employee committed the 40 transaction at module **8780**. If so, at module **8782**, the process transitions to the employee commit jurisdictional handpay process. If not, the process cycles back to module **8774**.

When processing a handpay, the most likely results are an employee commit or cancel process. FIG. 88 is a software 45 flowchart of what happens when the employee commits the hand pay. Process 8800 initiates with module 8805, and at module 8810, the console sends the message committing the handpay to the server. At module 8812, a timeout is checked. If the message times out, at module 8855, it is determined 50 whether this was tried three times. If no, the process retries at module 8810. If so, a message indicating failure is displayed at module 8852, and the process terminates at module 8860.

If the message does not time out, an error code is checked at module **8814**. If the error code is zero (error code is no 55 error), then the process closes the session at module **8816**. Another message timeout is checked at module **8818** (for closing the session). If the message times out, at module **8835**, it is determined whether this was tried three times. If not, the process cycles back to module **8816** to close the 60 session again. If so, the console displays an error indicating the transaction completed but the session did not close at module **8840**, and the process terminates at module **8850**. If the message does not time out, then at module **8820** a message displays confirming winnings should be paid, and that reward 65 points are being saved (have been saved). At module **8825**, it is determined whether the employee card has been removed.

92

If not, the process returns to the display module **8820**. If so, the process transitions to the legacy attract mode at module **8830**.

If there was a server error at module **8814**, then at module **8842**, server error code **42** is checked (a predetermined server error code). If this is not the error code, the machine tilts at module **8865**, indicating a software bug, and the process terminates at module **8850**. If server error code **42** is found, then at module **8844**, the session is closed via message to the server. At module **8846**, a time out is checked for the message. If the time out occurs, then at module **8848**, it is determined if this was tried three times. If so, the process transitions to module **8852**. If not, the message may be retried at module **8844** or the process may simply wait for a time out at module **8846** 

If the message does not time out at module **8846**, the console tells the employee the handpay was cancelled at module **8870**. The employee may then determine if the handpay was paid out elsewhere (e.g. the cage, another terminal, etc.) or if the handpay has yet to be paid. At module **8875**, the process determines whether the employee card has been removed. If not, the process waits for this event. If so, the process transitions to the legacy attract mode at module **8830**.

Another option is for the employee to cancel the handpay. FIG. **89** is a software flowchart of what happens when the employee cancels the hand pay. Process **8900** initiates with module **8905**, and the console sends a cancellation message at module **8910**. At module **8915**, time out on the message is checked. If the message times out, at module **8920**, it is determined whether the message timed out three times. If not, the message is retried at module **8910**. If so, the console indicates it could not connect to the server at module **8925**, and the employee takes the machine out of service. At module **8930**, the process transitions to the server connection lost process.

If the message completes at module **8915**, then at module **8940**, the console sends a close session message. At module **8945**, the close session message time out is checked. If the message times out, at module **8950**, it is determined whether the time out occurred three times. If not, the message is retried at module **8940**. If so, the console indicates it could not connect to the server at module **8935**, and the employee takes the machine out of service. At module **8930**, the process transitions to the server connection lost process. If the message does not time out, the process waits for removal of the employee card at module **8960**, and then transitions to legacy attract mode via module **8970**.

Oftentimes, the player card may be removed. FIG. 90 is a software flowchart of what happens when the player removes the player card. Process 9000 initiates with module 9005 and determines whether a player session is open at module 9010. If not, the process transitions to the legacy attract process via module 9015. If so, the process determines if the player was at a handpay screen at module 9020. If so, the console deposits play points and threshold counter at the server at module 9025 (failure here is handled through the server connection lost process). At module 9030, the console continues to display the handpay screen, and at module 9035, the process transitions to the jurisdictional handpay process.

If the console was not at a handpay screen, at module **9040** it is determined whether a game was in progress. If so, then at module **9045** the console waits for the game to end. At module **9050**, the console sends the end game message and at module **9055**, the console sends the menu pressed message and waits for a display of results.

Whether a game was in progress or not, the console deposits play points and the threshold counter at module **9060**. At

module **9065**, the console sends the close session message to the server. At module **9070**, the console sends the end game data message to the server. The process then transitions to the legacy attract process via module **9015**.

A connection to the server may be lost, in which case the 5 machine experiences an override process. FIG. 91 is a software flowchart of what happens when the server connection is lost from the iVIEW. Process 9100 initiates at module 9110. At module 9120, the console has sent a message three times and it has timed out. At module 9130, a game unavailable 10 message is displayed. At module 9140, the console sends a test message to the server. At module 9145, time out is checked. If the message times out, the process returns to module 9130. If the message does not time out, at module 9150 all unsent (queued) messages are sent to the server. At 15 module 9160, it is determined whether any of these messages timed out. If yes, the process again returns to module 9130. If not, at module 9170, it is determined whether the player card is still inserted. If not, the process transitions to the player card removed process at module 9180. If so, the process 20 transitions to the system game console process at module 9190.

In some instances, autoplay may be invoked. FIG. **92** is a software flowchart of how the Autoplay logic works. Process **9200** initiates at module **9205**, and at module **9210**, the 25 autoplay setting is checked. If autoplay is off, the process terminates at module **9288**. Otherwise, if iView is not at the console main screen at module **9215**, the process terminates at module **9286**. At module **9220**, if the player has navigated on iView during the session, the process also terminates at module **9286**. The process is not invoked when these indicia indicate a relatively active machine.

At module **9225**, the autoplay timer is checked. If it is not on, at module **9230** the timer is turned on. At module **9235**, it is determined whether the player navigated on iView. If so, 35 the autoplay timer is turned off at module **9245** and the process terminates at module **9250**. If not, at module **9240**, an abandon card state is checked. If this is present, then at module **9250** the autoplay timer is reset and the process returns to module **9235**.

If the abandon card state is not present, a tilt state is checked at module **9255**. If the machine is in tilt mode, at module **9270** the autoplay timer is turned off, and the process terminates at module **9282**. If the machine is not in tilt state, at module **9260**, a warning is shown in the prompt area (e.g. 45 the machine is about to automatically play a hand of poker). At module **9265**, the autoplay timer is checked. If the time has not exceeded the limit, then the process returns to module **9235**. If the time has exceeded the limit, than at module **9275** the console launches the appropriate game based on the state 50 of the card and the accrued points. The process then transitions to the game flow process via module **9280**.

In some instances, an employee card may be inserted. FIG. 93 is a software flowchart of what happens when the employee card is inserted. Process 9300 initiates at module 55 9310. At module 9320, an employee card insertion is detected. At module 9330, a determination is made as to whether the player is in a game. If so, the console waits for the game to end at module 9340. The process then shows the employee legacy menu at module 9350. At module 9360, it is 60 determined whether the employee card was removed. If not, the process loops back to the menu at module 9350. If so, the process goes to the legacy attract process at module 9370.

In some instances, a heartbeat timer may override other processes. FIG. **94** is a software flowchart of heartbeat messages from the iVIEW to the Live Rewards server or SGS. Process **9400** initiates at module **9410** and determines at

94

module 9420 whether a message was sent and received from the server. If so, the heartbeat timer is reset at module 9480 and the process terminates at module 9490. If not, at module 9430, it is determined whether the heartbeat timer has expired. If not, the process terminates at module 9440. If so, the console sends a time request to the server at module 9450. Additionally, the console sends game data to the server at module 9460, and terminates the process at module 9470. Thereby, the system is always updated, at least about every 14 minutes in one embodiment.

Other override conditions may occur, too. FIG. 95 is a software flowchart of what happens when abandoned player cards or directed messages come in from the Game monitoring unit. Process 9500 initiates at module 9505 and at module 9510 a message relating to an abandoned card or a directed message is received. At module 9515, a current game is checked. If there is a current game, at module 9590, the console ends the game with a menu pressed message and waits for game termination. If there is no game in progress, at module 9520 it is determined whether a withdrawal was started. If so, the console waits for completion of the transaction at module 9525. If no withdrawal, at module 9570, it is determined whether the player is at a handpay screen. If so, if the player does not cancel at module 9575, the handpay is processed at module 9580 and the process terminates at module 9585.

If the handpay is cancelled, if no handpay was in progress, or if the process is transitioning from modules 9590 or 9525, the process moves to module 9530 and determines is an abandoned card message was received. If so, the console goes to the abandoned card screen and continues to accrue player points and the threshold counter at module 9535. At module 9540, it is determined whether the player card was removed. If not, the process returns to module 9535 and if so, the process transitions to the player card removed process via module 9545.

If no abandoned card message was received, the console shows legacy pages at module 9550 until the timer for the pages is complete. At module 9555, it is determined whether the player card is still in. If not, the process transitions to the legacy attract mode via module 9560. If so, the process transitions to the system game main console screen via module 9565.

Another possibility is failure of NVRAM. FIG. 96 is a software flowchart of what happens when the writing to the non-volatile memory fails. Process 9600 initiates with module 9610 and at module 9615, an NVRAM failure is detected. The console sends an error message to the server at module 9620. At module 9625, the console attempts to send in log data. At module 9630, a determination is made as to whether a game was in progress. If so, at module 9665 the console sends an end game message with score and winnings. At module 9670, the console unloads the game. At module 9635, the console sends any play points and threshold counter data to the server and any withdrawal information, regardless of whether a game was in progress. At module 9640, a tilt message is displayed. At module 9645, a technician takes the machine out of service and may need to clean up the player session at another terminal (e.g. a cage terminal). The process terminates at module 9650.

The following lists the proposed features that make up the player's account movements:

On the server:

There may be a player account that contains (not limited to):

- a) Useable Play Points
- b) A Threshold Counter value
- c) Un-transferred Bonus Points (BP's)
- d) Un-collected Cash Winnings

This account may be accessible at all times to any number of cards that are inserted into an iVIEW.

When the LIVE REWARDS SERVER receives a card-in from an iView it may make a reserve account for that player linked by:

- a) Card number
- b) IView ID

LIVE REWARDS SERVER may transfer the contents of the player's account into the reserve account for use by this player.

The reserve account may have a date/time stamp that is updated each time the iView either:

- a) Deposits PP, TC, BP, or cash
- b) Transfers cash via AFT to base game
- c) Does a Begin Game or End Game call
- d) Sends a 'heartbeat' message

If the date/time stamp is ever older than X minutes (server configurable) the values in the reserve account may rollback into the player's account.

On Begin game PP's and TC's are deducted from the 20 reserve account to fund the game selected by the player.

On End Game: winnings from the played game are added into the player's reserve account.

Any BP's are immediately sent to the CMS from LIVE REWARDS SERVER.

On card-out the remaining values in the reserve account may roll back into the player's account.

Deposits from the iView in recovery mode are put in the player's account and any reserve account for this card #/iView ID are rolled back.

#### USE OF RANDOM NUMBER GENERATOR

Boom Bingo and Payday Poker utilize an RNG for parts of their game play. The specific RNG used is a KISS algorithm. Both games use the System Game GDK, KissRNG. It is used in the following way:

- 1. When a Game (such as Boom Bingo) Loads, the kiss-RNG class is seeded with the TickCount. This is the number of milliseconds elapsed since this device has booted: see-d\_rand\_kiss((uint)
- (System.Environment.TickCount%uint.MaxValue));
- 2. Each gameloop (approximately 20 times per second), the random number is churned: rand\_kiss(); //Churn RNG
- 3. When a base games is played on the cabinet (a player generated event), the Random is reseeded with the next value of the current seed:

if(id=CMGDKSystemMessage.BaseGameStart) seed\_rand\_kiss(rand\_kiss()); 96

4. When a enough Base games have been played to start a System Game (Bingo or Poker), the Game may use the rand\_kiss(); as many times as needed to generate its outcome.

Usage of Random in Boom Bingo

Bingo uses the RNG in 2 ways:

To generate the bingo cards

To draw the balls

To generate a bingo card the game:

- 1. Picks a random number between 1 and 15 for the first 10 column.
  - 2. Repeats 5 times. Once for each square in the first column.
  - 3. If a duplicate random number is picked, another random number is picked until all numbers within the column are unique.
  - 4. Repeat the process for the other 4 columns using the following rules for the range of numbers:

column 1 (B) 1 thru 15

column 2 (I) 16 thru 30

column 3 (N) 31 thru 45

column 4 (G) 46 thru 60

column 5 (O) 61 thru 15

When drawing the balls the game:

- 1. Picks a random number between 1 and 75.
- 2. Repeat for all 10 balls that are displayed to player.
- 3. If a duplicate random number is picked, another random number is picked until all balls have a unique number.

Usage of Random in Poker

Poker uses the RNG to shuffle the deck of cards

To shuffle the deck:

- 1. A deck Object of 52 unique cards exists.
- 2. Starting with the first card in the deck a random card in the deck is selected. That card is swapped with the first card.
  - 3. This process continues for all 52 cards in the deck.
- 4. If on any given card, the random card that was chosen is the current card, the card may not move.
  - 5. This shuffle process may go through the deck 7 times.
  - 6. The deck is then verified for accuracy to ensure no duplicates exist. In the case of a duplicate being found the deck may be reset to an ordered deck (ace-king for each suit) and then pass through the shuffle process again.
  - 7. The deck is not ordered at the beginning of each hand. The deck from the prior hand is used and shuffled.

Bally Live Rewards Message Interface Definitions

Bally Live Rewards Server (BLRS) communicates with iVIEW's through Web Services over http/http(s). The following Web Service methods are provided by the Bally Live Rewards Server:

| Name                  | Purpose  |
|-----------------------|--|
| registerIView         | Register's the iVIEW with BLRS                                     |
| getSGSDateTime        | Returns the current BLRS Date time                                 |
| getGlobalSettings     | Returns the global settings for Live Reward Games                  |
| getAllPlayerSettings  | Returns the player settings including available games, game start  |
|                       | rules and play point value for all the player types                |
| postEventLog          | Logs the event message in to BLRS                                  |
| getActivePayTableSets | Returns the active pay table sets, game settings for all the games |
|                       | and player types   |
| getPayTableSet        | Returns the requested pay table set object                         |
| unRegisterIView       | Un registers the iVIEW with BLRS                                   |
| SGS_CreateSession     | Creates the Session for request player on a specified iVIEW and    |
|                       | also returns weather the requested device is active or not.        |

#### -continued

| Name                                  | Purpose   |
|---------------------------------------|---|
| SGS_ValidatePin<br>SGS_IsPlayerLocked | Validates the player PIN number with CMS/CMP Verifies with the BLRS and returns weather the player is locked or not and also returns the time in minutes, how long that player will be locked |
| SGS_GetSessionBuckets                 | Returns the all player current session bucket balance values  |
| SGS_Deposit                           | Deposits the requested player bucket transaction value in to the BLRS   |
| SGS_StartWithdrawal                   | Initiates the withdrawal transaction with BLRS for a specified player bucket transaction value in BLRS  |
| SGS_EndWithdrawal                     | Closes the opened withdrawal transaction  |
| SGS_BeginGame                         | Initiates the begin game transaction with BLRS  |
| SGS_EndGame                           | Closes the opened game play transaction   |
| SGS_StartHandpay                      | Imitates the hand pay transaction with BLRS   |
| SGS_EndHandpay                        | Closes the opened Hand pay  |
| SGS_CloseSession                      | Closes the opened session   |
| SGS_EGMGamePlay                       | Posts the EGM activity. i.e., total coin In, total coin Out and No-of games played to the BLRS.   |
| SGS_QueryGameplayLog                  | Returns the game play transactions log for the requested device   |
| SGS_QueryWithdrawals                  | Returns the withdrawal transactions log for the requested device  |
| SGS_QueryHandpayLog                   | Returns the hand pay transactions log for the requested device  |

## Services Specs

Return Values

All web services will return an object. All return objects  $_{25}$  inherit from the same base class and therefore always contain the following fields:

| Response Parameter Name | Purpose  | 30 |
|-------------------------|--|----|
| Result<br>errorString   | Call result: 0 - success, non-zero - failure<br>Error description (empty if success) |    |

### Error Codes

| Error Description                          | Error Code |
|--|------------|
| GENERIC_SYSTEM_ERROR                       | -1         |
| SUCCESS                                    | 0          |
| SUCCESS_WITH_DUPLICATE_TRANSACTION         | 1          |
| INVALID_PARAMS                             | 2          |
| SESSION_ID_INVALID                         | 10         |
| SESSION_SUSPENDED                          | 11         |
| SESSION_CLOSED                             | 12         |
| SESSION_VALIDATION_FAILURE                 | 13         |
| SESSION_CLOSE_FAILURE_PENDING_TRANSACTIONS | 14         |
| INSUFFICIENT_FUNDS                         | 20         |
| INVALID_SESSSION_DEPOSIT_NUMBER            | 21         |
| INVALID_SESSSION_WITHDROWAL_NUMBER         | 22         |
| TRANSACTION_ID_INVALID                     | 23         |
| TRANSACTION_VALIDATION_FAILURE             | 24         |
| ATTEMPT_TO_ROLLBACK_COMMITED_TRANSACTION   | 25         |
| ATTEMPT_TO_COMMIT_ROLLEDBACK_TRANSACTION   | 26         |
| NON_JURISDICTION_WITHDRAWALS_ONLY          | 27         |
| JURISDICTION_WITHDRAWALS_ONLY              | 28         |
| INVALID_HANDPAY_ID                         | 40         |
| HANDPAY_VALIDATION_FAILURE                 | 41         |
| ATTEMPT_TO_COMPLETE_CANCELLED_HANDPAY      | 42         |
| ATTEMPT_TO_CANCEL_COMPLETED_HANDPAY        | 43         |
| ATTEMPT_TO_COMPLETE_COMPLETED_HANDPAY      | 44         |
| CMS_FUNCTION_FAILED                        | 70         |
| INVALID_HID                                | 80         |
| LAST_ERROR                                 | 10000      |

Web Service: registerIView

The purpose of this message is to create a unique iVIEW Id 65 on the Live Rewards Server; if that specified iVIEW Id (machine address of a device) already exists in the BLRS data-

base it updates the related information with the same iVIEW Id. All the information that is stored along with the unique iVIEW Id is reference purpose to identify the device and its location.

|                         | Purpose   | Type/Range       |
|-------------------------|---|------------------|
| Request Parameter Name  | _   |                  |
| iviewId                 | Machine address of iVIEW device                               | 0-50 characters  |
| casinoId                | Unique for each casino  | 0-4 characters   |
| gameSerialNo            | Serial number of cabinet                                      | 0-40 characters  |
| gameId                  | Manufacturer type   | 0-5 characters   |
| payTableId              | Unique Pay Table Id   | 0-6 characters   |
| basePer                 | Theoretical pay back  | 0-10 characters  |
| gmuTime                 | Gmu time  | 0-6 characters   |
| maxBet                  | Max bet for game  | 0-12 characters  |
| gmuId                   | Gmu network address   | 0-32 characters  |
| protocolVersion         | Version number of protocol                                    | 0-16 characters  |
| enableFeatures          | SAS related bit mapped field of features the game has enabled | 0-6 characters   |
| gameType                | Type of ecash game  | 0-3 characters   |
| Enable                  | Enable or disable Live Rewards Game messaging                 | True/False       |
| denomination            | No-of pennies in credit for game played                       | 0-12 characters  |
| totalCoinIn             | Coin in game meter in pennies                                 | 0-12 characters  |
| totalCoinOut            | Coin out game meter in pennies                                | 0-12 characters  |
| gamesPlayed             | No-of games played  | 0-12 characters  |
| assetId                 | Unique identifier to the casino for the cabinet               | 0-8 characters   |
| Response Parameter Name | _   |                  |
| isActive                | iVIEW device is active or not in the BLRS                     | True/False       |
| Result                  | Call result: 0 - success, non-zero - failure                  | Int              |
| errorString             | Error description   | 0-1000 character |

## Web Service: getSGSDateTime

The purpose of this message is to sync the iVIEW device clock with the Live Rewards Server clock. This message returns the current Live Rewards Server date and time.

|                                    | Purpose   | Type/Range |
|------------------------------------|---|------------|
| Request Parameter<br>Name          | _   |            |
| None<br>Response Parameter<br>Name | _   |            |
| Result                             | Call result: 0 - success,<br>non-zero - failure | Int        |

## -continued

|                                | Purpose   | Type/Range                              |
|--------------------------------|---|---|
| errorString<br>CurrentDateTime | Error description<br>Current Live Rewards Server<br>date and time | 0-1000 characters  Date and time object |

## Web Service: getGlobalSettings

The purpose of this message is to control the Live Rewards games/console on iVIEW depending on the settings defined on the server side. It returns the Global settings (these settings are common for all the iVIEW's) defined on the Live Rewards Server.

| Request Parameter<br>Name | Purpose  | Type/Range      |
|---------------------------|--|-----------------|
| IviewId                   | Machine address of iVIEW device  | 0-50 characters |
| Resync Interval           | Resync interval rate in mins for iVIEW to request the global settings, active pay table sets and player type settings from BLRS. | Double          |
| System game mode volume   | Live Rewards game volume in percentage   | Int             |
| Attract mode volume       | iVIEW attract mode volume in percentage  | Int             |
| Auto Play                 | True - auto play enabled, False - auto play disabled   | True/False      |
| *Tilt Time                | Time in mins to tilt the system games  | Int             |
| *Auto Remove Play         | Time in minutes to clear the not used Live   | Int             |
| points                    | Rewards game play points on the device. $0 = $ this feature is OFF   |                 |
| Jurisdictional Limit      | Array of Prize Type Limit objects. Each object contains prize type Id and limit number   | Double          |

<sup>\*</sup>Means not used

45

101

Web Service: getAllPlayersSettings

It returns the player settings including accrual rate, Live Rewards game start threshold counter and Live Rewards game start rules for all the player types (ex: Gold, Silver, etc.) defined on the BLRS

|  | Purpose   | Type/Range                         |   |
|--|---|------------------------------------|---|
| Request Parameter<br>Name  | _   |                                    | • |
| IviewId<br>Response Parameter<br>Name                              | Machine address of iVIEW device   | 0-50 characters                    |   |
| Player Settings<br>Each Player Type<br>Settings Object<br>contains | Array of player Setting objects   |                                    |   |
| Player Type<br>Accrual Rate<br>System Game Start<br>Threshold      | Player type Id (Gold, Silver, etc)<br>Play points accrual percentage<br>Live Rewards game start counter | Int<br>Double<br>Int               | : |
| System Game Start<br>Rules   | Array of Rules. Each Rule contains<br>Rule Id<br>Rule Description<br>Occurrence counter                 | Int<br>0-20 characters<br>Int      |   |
| Available Games  | Increment Value Array of Game objects. Each object contains Game ID Game Name                           | Int 0-4 characters 0-50 characters |   |

#### Web Service: postEventLog

The purpose of this message is to store the logs (error logs or events or information) in to the Live Rewards server database occurred in the iVIEW's, example tilt messages on 35 iVIEW's.

|             | Purpose                                      | Type/Range       |
|-------------|--|------------------|
| Request     |  |                  |
| Parameter   |  |                  |
| Name        | _  |                  |
| eventType   | Type of the event                            | 0-10 characters  |
|             | (0-Error, 1-Info, 2-debug)                   |                  |
| iviewId     | Machine address of a iVIEW device            | 0-50 characters  |
| assetId     | Asset number assigned to this                | 0-8 characters   |
|             | device or slot/base game                     |                  |
| errCode     | Error code defined by the iVIEW if any       | 0-20 characters  |
| Data        | Information/message about the event          | 0-200 characters |
| Response    |  |                  |
| Parameter   |  |                  |
| Name        |  |                  |
|             | <del>-</del>                                 |                  |
| Result      | Call result: 0 - success, non-zero - failure | Int              |
| errorString | Error description                            | 0-1000 character |

#### Web Service: unRegisterIView

The purpose of this message is to unregistered the registered iVIEW with the BLRS.

|                           | Purpose                           | Type/Range      | _  |
|---------------------------|-----------------------------------|-----------------|----|
| Request Parameter<br>Name | _                                 |                 | _  |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters | 65 |

## 102

-continued

|   |                            | Purpose                   | Type/Range        |
|---|----------------------------|---------------------------|-------------------|
| 5 | Response Parameter<br>Name | _                         |                   |
|   | Result                     | Call result: 0 - success, | Int               |
|   | errorString                | Error description         | 0-1000 characters |

#### Web Service: getActivePayTableSets

It returns all the active pay table sets, game settings for the Live Rewards games by player types (ex: Gold, Silver, etc.) defined on the BLRS

|   |                            | Purpose  | Type/Range        |
|---|----------------------------|--|-------------------|
| 0 | Request Parameter<br>Name  | _  |                   |
|   | iviewId                    | Machine address of a iVIEW device                | 0-50 characters   |
|   | Response Parameter<br>Name | _  |                   |
| 5 | PTabSets                   | All pay table sets                               | XML Node          |
|   | Result                     | Call result: 0 - success, non-<br>zero - failure | Int               |
|   | errorString                | Error description                                | 0-1000 characters |
|   |                            |  |                   |

## Web Service: getPayTableSet

It returns the requested pay table set object from BLRS.

|   | Purpose  | Type/Range        |
|---|--|-------------------|
| Request Parameter<br>Name                   | _  |                   |
| PayTableSetId<br>Response Parameter<br>Name | Pay table set Id   | Int               |
| PTabSets<br>result                          | pay table set<br>Call result: 0 - success,<br>non-zero - failure | XML Node<br>Int   |
| errorString                                 | Error description  | 0-1000 characters |

#### Web Service: SGS\_CreateSession

It creates the Session for requested player on a specified iVIEW. It reserves the buckets for that player in this session.

|    |   | Purpose   | Type/Range                            |
|----|---|---|---------------------------------------|
| 55 | Request Parameter<br>Name               | _   |                                       |
|    | iviewId                                 | Machine address of a iVIEW device                                   | 0-50 characters                       |
| 60 | plrCardNo<br>Response Parameter<br>Name | Player Card Number  | 0-20 characters                       |
|    | sessionId<br>Buckets                    | A unique session Id<br>An array of buckets.<br>Each bucket contains | Int                                   |
| 65 |   | prizeTypeId<br>jurisdiction<br>TRX_Value<br>balance                 | Int<br>True/False<br>Double<br>Double |

## -continued

|                | Purpose   | Type/Range        |
|----------------|---|-------------------|
| PlayerData     | Player Data object contains                         |                   |
|                | plrCardNo   | 0-20 characters   |
|                | playerType  | Int               |
|                | banned  | True/False        |
| IsDeviceActive | Weather the requested iVIEW device is active or not | True/False        |
| result         | Call result: 0 - success,<br>non-zero - failure     | Int               |
| errorString    | Error description                                   | 0-1000 characters |
|                |   |                   |

Web Service: SGS\_ValidatePin

It verifies the Player Pin is correct or not through CMS/ CMP servers.

|                           | Purpose   | Type/Range        |
|---------------------------|---|-------------------|
| Request Parameter<br>Name | _   |                   |
| iviewId                   | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo                 | Player Card Number                              | 0-20 characters   |
| Pin                       | Pin number                                      | UN KNOWN          |
| Response Parameter        |   |                   |
| Name                      | _   |                   |
| pinStatus                 | Valid or Not                                    | True/False        |
| isLocked                  | Locked or Not                                   | True/False        |
| lockTimeinMins            | Lock time in minutes                            | Int               |
| result                    | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString               | Error description                               | 0-1000 characters |

Web Service: SGS\_IsPlayerLocked

It checks weather the requested player is locked or not in BLRS. If the player is locked it returns lock time in minutes.

|   | Purpose   | Type/Range        |
|---|---|-------------------|
| Request Parameter<br>Name               | _   |                   |
| iviewId                                 | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo<br>Response Parameter<br>Name | Player Card Number                              | 0-20 characters   |
| isLocked                                | Locked or Not                                   | True/False        |
| lockTimeinMins                          | Lock time in minutes                            | Int               |
| result                                  | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString                             | Error description                               | 0-1000 characters |

Web Service: SGS\_GetSessionBuckets

It returns the requested player Session Bucket values from 55 reserved buckets (session buckets).

|   | Purpose   | Type/Range                                |    |
|---|---|---|----|
| Request<br>Parameter<br>Name                  | -   |   | 60 |
| iviewId<br>plrCardNo<br>sessionId<br>Response | Machine address of a iVIEW device<br>Player Card Number<br>Session Number | 0-50 characters<br>0-20 characters<br>Int | 65 |

|    |                       | Purpose  | Type/Range                            |
|----|-----------------------|--|---------------------------------------|
| 5  | Parameter<br>Name     | -  |                                       |
| 10 | Buckets               | An array of buckets. Each bucket contains prizeTypeId jurisdiction TRX_Value Balance | Int<br>True/False<br>Double<br>Double |
| 15 | result<br>errorString | Call result: 0 - success, non-zero - failure<br>Error description                    | Int<br>0-1000 characters              |

Web Service: SGS\_Deposit

Purpose

It deposits the requested buckets transaction values in to player's session buckets and it returns the current balances.

Type/Range

| 25 | Request<br>Parameter<br>Name                                  | -   |  |
|----|---|---|--|
| 30 | iviewId<br>plrCardNo<br>sessionId<br>depositNumber<br>Buckets | Machine address of a iVIEW device<br>Player Card Number<br>Session Number<br>Deposit counter number<br>An array of buckets. Each bucket<br>contains | 0-50 characters<br>0-20 characters<br>Int<br>Int |
| 35 |   | prizeTypeId<br>jurisdiction<br>TRX_Value<br>balance   | Int<br>True/False<br>Double<br>Double            |
|    | Response<br>Parameter<br>Name                                 | -   | Bount  |
| 40 | Buckets   | An array of buckets. Each bucket contains prizeTypeId jurisdiction TRX_Value balance  | Int<br>True/False<br>Double<br>Double            |
| 45 | result  | Call result: 0 - success, non-zero - failure  | Int  |
|    | errorString   | Error description   | 0-1000 characters                                |

## Web Service: SGS\_StartWithdrawal

Initiates the withdrawal transaction for requested bucket and returns the BLRS Transaction Number to store in SDS Logs.

|                            | Purpose                                      | Type/Range      |
|----------------------------|--|-----------------|
| Request Parameter<br>Name  | _  |                 |
| iviewId                    | Machine address of a iVIEW device            | 0-50 characters |
| plrCardNo                  | Player Card Number                           | 0-20 characters |
| sessionId                  | Session Number                               | Int             |
| withdrawalNumber<br>Bucket | Withdrawal counter number<br>Bucket contains | Int             |
|                            | prizeTypeId                                  | Int             |
|                            | jurisdiction                                 | True/False      |
|                            | TRX_Value                                    | Double          |
|                            | balance                                      | Double          |

## 106

#### -continued

|                            | Purpose   | Type/Range                            |    |        |
|----------------------------|---|---------------------------------------|----|--------|
| Response Parameter<br>Name | _   |                                       | 5  |        |
| SGS_TransactionID          | BLRS Transaction Number to store in the SDS                 | Int                                   |    |        |
| result                     | Call result: 0 - success,<br>non-zero - failure             | Int                                   | 10 | R<br>P |
| errorString<br>Buckets     | Error description An array of buckets. Each bucket contains | 0-1000 characters                     |    | H      |
|                            | prizeTypeId<br>jurisdiction<br>TRX_Value<br>balance         | Int<br>True/False<br>Double<br>Double | 15 | В      |

## Web Service: SGS\_EndWithdrawal

It completes the withdrawal transaction for the requested BLRS Transaction Number and amount. If the amount is different than the Start amount, balance will deposited back to player account.

|                           | D.  | T /D              |
|---------------------------|---|-------------------|
|                           | Purpose   | Type/Range        |
| Request Parameter<br>Name | _   |                   |
| iviewId                   | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo                 | Player Card Number                              | 0-20 characters   |
| sessionId                 | Session Number                                  | Int               |
| SGS_TransactionID         | BLRS Transaction Number                         | Int               |
| isCommit                  | Commit or Rollback                              | True/False        |
| TRX_Value                 | Transaction Value to commit or rollback         | Double            |
| Response Parameter        |   |                   |
| Name                      | _   |                   |
| SGS_TransactionID         | BLRS Transaction Number to store in the SDS     | Int               |
| result                    | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString               | Error description                               | 0-1000 characters |

#### Web Service: SGS\_BeginGame

Purpose

Creates the new Game play history Id (HID) and debits the requested buckets transaction values from player session buckets.

Type/Range

55

| Request<br>Parameter<br>Name | _                        |                 |
|------------------------------|--------------------------|-----------------|
| GamePlay                     | Gameplay object contains |                 |
|                              | GID                      | 0-4 characters  |
|                              | IviewId                  | 0-50 characters |
|                              | plrCardNo                | 0-20 characters |
|                              | sessionId                | Int             |
|                              | casinoId                 | 0-4 characters  |
|                              | gmuId                    | 0-32 characters |
|                              | assetNo                  | 0-8 characters  |
|                              | startDateTime            | Date time       |
|                              | payTabSetId              | Int             |
|                              | payTabId                 | Int             |
|                              | gameSettingsId           | Int             |

|    |  | Purpose                                      | Type/Range        |
|----|--|--|-------------------|
| 5  | Array of Buckets. each bucket contains |  |                   |
|    |  | prizeTypeId                                  | Int               |
|    |  | jurisdiction                                 | True/False        |
|    |  | TRX_Value                                    | Double            |
|    |  | balance                                      | Double            |
|    | Response                               |  |                   |
| 10 | Parameter                              |  |                   |
|    | Name                                   | _  |                   |
|    | HID                                    | Game play History Id                         | Int               |
|    | Buckets                                | An array of buckets. Each bucket contains    |                   |
|    |  | prizeTypeId                                  | Int               |
| 15 |  | jurisdiction                                 | True/False        |
|    |  | TRX_Value                                    | Double            |
|    |  | balance                                      | Double            |
|    | Result                                 | Call result: 0 - success, non-zero - failure | Int               |
|    | errorString                            | Error description                            | 0-1000 characters |

## Web Service: SGS\_EndGame

It closes the Game transaction for the specified HID and stores the bucket transaction values in to player session buckets if any WIN.

|                               | Purpose  | Type/Range                                |
|-------------------------------|--|---|
| Request<br>Parameter<br>Name  | -  |   |
| GamePlay                      | Gameplay object contains   | _   |
|                               | HID<br>IviewId<br>plrCardNo  | Int<br>0-50 characters<br>0-20 characters |
|                               | sessionId endDateTime payLineId score Array of Buckets, each bucket contains | Int Date time Int Int                     |
|                               | prizeTypeId<br>jurisdiction<br>TRX_Value<br>balance                          | Int<br>True/False<br>Double<br>Double     |
| Response<br>Parameter<br>Name | -  | Source                                    |
| HID<br>Buckets                | Game play History Id<br>An array of buckets. Each bucket contains            | _   |
|                               | prizeTypeId<br>jurisdiction<br>TRX_Value<br>balance                          | Int<br>True/False<br>Double<br>Double     |
| result<br>errorString         | Call result: 0 - success, non-zero - failure<br>Error description            | Int<br>0-1000 character                   |

#### Web Service: SGS\_StartHandpay

Initiates the new Hand pay transaction and returns the Hand pay ID with the bucket values to send a message to cage.

| 60 | Purpose                      |  | Type/Range |
|----|------------------------------|--|------------|
|    | Request<br>Parameter<br>Name | -  |            |
| 65 | НРТуре                       | Hand pay Type (Jurisdiction or player initiated) | Int        |

## -continued

|             | Purpose                                | Type/Range        |
|-------------|--|-------------------|
| SessionId   | Player Current Session Id              | Int               |
| IviewId     | Machine address of a iVIEW device      | 0-50 characters   |
| CasinoId    | Property Id                            | 0-4 characters    |
| GmuId       | Machine address of a device            | 0-32 characters   |
| AssetNo     | Account number of a device             | 0-8 characters    |
| PLRCardNo   | Player card number                     | 0-20 characters   |
| Buckets     | Array of Buckets, each bucket contains |                   |
|             | prizeTypeId                            | Int               |
|             | jurisdiction                           | True/False        |
|             | TRX_Value                              | Double            |
|             | balance                                | Double            |
| Response    |  |                   |
| Parameter   |  |                   |
| Name        | _                                      |                   |
| HPID        | Hand pay ID                            | Int               |
| Result      | Call result: 0 - success, non-zero -   | Int               |
| errorString | Error description                      | 0-1000 characters |

Web Service: SGS\_EndHandpay

It closes the Hand pay transaction for the request hand pay ID.

|  | Purpose   | Type/Range                                  |
|--|---|---|
| Request<br>Parameter<br>Name                                 | _   |   |
| IviewId<br>Player Card<br>Number                             | Machine address of a iVIEW device<br>Player card number   | 0-50 characters<br>0-20 characters          |
| SessionId HandpayId isCommit Completed By Response Parameter | Player Current Session Id<br>Hand pay Id<br>Commit the transaction or not<br>Employee card number | Int<br>Int<br>True/False<br>0-20 characters |
| Name   | _   |   |
| HPID<br>Result   | Hand pay ID Call result: 0 - success, non-zero -  | 0 or non-negative                           |
| 220000   | failure   |   |
| errorString  | Error description   | 0-1000 characters                           |

Web Service: SGS\_CloseSession

Closes the requested player session on specified iVIEW  $^{45}$  and moves the player session buckets in to player main account

|  | Purpose   | Type/Range  |
|--|---|---|
| Request<br>Parameter<br>Name   | _   |   |
| iviewId<br>plrCardNo<br>sessionId<br>recoveryYN<br>Response<br>Parameter<br>Name | Machine address of a iVIEW device<br>Player Card Number<br>Session Number<br>Recovery session or normal | 0-50 characters<br>0-20 characters<br>Int<br>True/False |
| result   | Call result: 0 - success, non-zero - failure  | 0 or 1  |
| errorString  | Error description   | 0-1000 characters                                       |

Web Service: SGS\_EGMGamePlay

It posts the EGM game play activity data in to the BLRS. i.e., total coin in, total coin out, # of games played. This data

## 108

will be posted on every heart beat call to the server, before create session and before close session.

|   | Purpose   | Type/Range  |
|---|---|---|
| Request<br>Parameter<br>Name  | -   |   |
| iviewId<br>assetId<br>sessionId<br>totCoinIn<br>totCoinOut<br>gamesPlayed<br>Status | Machine address of a iVIEW device<br>Account number of a device<br>Session Number<br>Total coin in<br>Total coin out<br>No of games played<br>Status of the device at the time of<br>posting data | 0-50 characters 0-20 characters Int Int Int O = None 1 = Session Open 2 = Session in progress |
| Response<br>Parameter<br>Name   | _   | 3 = Session Closed  |
| result  | Call result: 0 - success, non-zero - failure  | 0 or 1  |
| errorString   | Error description   | 0-1000 characters   |

## Web Service: SGS\_QueryWithdrawals

It returns the withdrawal transaction Log for the requested iVIEW and prize type.

|   | Purpose   | Type/Range        |
|---|---|-------------------|
| Request Parameter<br>Name                 | _   |                   |
| iviewId                                   | Machine address of a iVIEW device   | 0-50 characters   |
| prizeType                                 | Prize type  | Int               |
| noofRecords<br>Response Parameter<br>Name | No-Of records to return   | Int               |
| Withdrawl_Report                          | Array of Withdrawal_Report<br>object.<br>Each Withdrawal_Report<br>contains |                   |
|   | tranId  | Int               |
|   | sessionId   | Int               |
|   | session_TrxId   | Int               |
|   | plrCardNo   | 0-20 characters   |
|   | sourceId  | 0-50 characters   |
|   | tranDateTime  | Date time         |
|   | prizeValue  | Double            |
|   | jurisdiction  | True/False        |
| result                                    | Call result: 0 - success,<br>non-zero - failure                             | Int               |
| errorString                               | Error description   | 0-1000 characters |

Web Service: SGS\_QueryGamePlayLog

It returns the Game play history transactions for the requested iVIEW.  $\,$ 

| 60 |                           | Purpose                           | Type/Range      |
|----|---------------------------|-----------------------------------|-----------------|
|    | Request Parameter<br>Name | _                                 |                 |
| 65 | iviewId                   | Machine address of a iVIEW device | 0-50 characters |
|    | noofRecords               | No-Of records to return           | Int             |

## -continued

|                            | Purpose  | Type/Range  |
|----------------------------|--|---|
| Response Parameter<br>Name | _  |   |
| GamePlay_Report            | Array of Gameplay_Report object. Each Gameplay_Report contains HID GID LiviewId plrCardNo sessionId casinoId gmuId assetNo startDateTime endDateTime payTabSetId payTabId gameSettingsId score buckets Spent buckets Won | Int Int 0-50 characters 0-20 characters Int 0-4 characters 0-32 characters 0-8 characters Date time Int Int Int Int Bucket values Bucket values |
| result                     | Call result: 0 - success,<br>non-zero - failure  | Int   |
| errorString                | Error description  | 0-1000<br>characters  |

Web Service: SGS\_QueryHandpayLog

It returns the hand pay transactions for the requested iVIEW.

|  | Purpose   | Type/Range  |
|--|---|---|
| Request<br>Parameter<br>Name                             | _   |   |
| iVIEW Id<br>noofRecords<br>Response<br>Parameter<br>Name | Machine address of a iVIEW device<br>No-Of records to return  | 0-50 characters<br>Int  |
| HandPay_Report   | Array of HandPay_Report object. Each HandPay_Report contains HPID HPDesc IviewId plrCardNo sessionId casinoId gmuId assetNo createdDateTime completedDateTime | Int 0-50 characters 0-50 characters 0-20 characters Int 0-4 characters 0-8 characters Date time Date time |
|  | completedBy<br>buckets  | 0-20 characters<br>Bucket values  |
| result   | Call result: 0 - success,<br>non-zero - failure   | Int   |
| errorString  | Error description   | 0-1000<br>characters  |

It may be useful to understand the overall system in some detail. FIG. 97 provides an overview of the system and the various servers used. System 9700 includes a game machine 9710, rewards server 9720, marketing server 9730, slot system 9750 and gamenet bridge 9740. Rewards server 9720 administers player loyalty rewards and maintains player profiles. Marketing system 9730 administers marketing to players and interacts with the rewards server to customize this marketing. It also interacts with slot system 9750. Slot system 9750 manages the slot system at a high level, administering payout rates and jackpots, for example. Gamenet bridge 9740

#### 110

communicates with the individual game machines 9710 to track actual games (as opposed to rewards which are handled in communication with rewards server 9720).

Game 9710 is a gaming system with a GMU 9790, iView 9755, and base game processor 9780. Game 9710 also includes a display 9785, pinpad 9797 and card reader 9793 (in various embodiments). IView 9755 includes a casino magic interface 9760 with the rewards server 9720 which communicates with a game 9765 and with the iView shell 9770. The iView shell 9770 also communicates through a GMU service 9775 (or directly) with the base game processor 9780, and communicates directly with GMU 9790.

Further aspects of the system will be understood with reference to the following description and accompanying figures. FIG. 98 illustrates an embodiment of a process of operating a gaming machine. Process 9800 and other processes of this document are described in terms of modules which may be executable code, components, subsystems, or other implementations of a system or method which accomplishes the function in question.

Process 9800 initiates at module 9810 with verification of player identity, such as through receipt of player identifying information and authentication of that information with a server, for example. At module 9820, personalized data associated with the player is received from the server, such as data stored at a rewards server which may modify pay tables, games available, personal preferences, and other data. At module 9830, a game is played at the gaming device. At module **9840**, base game data from the game (e.g. a result) is sent to a slot accounting server. At module 9850, base game data is sent to a rewards module (which may be internal to a gaming device) and from there to the rewards server. At module 9860, bonus data from the slot accounting server is 35 received, such as progressive bonuses and the like. At module 9870, the gaming device receives trigger(s) and bonus data from the rewards server, such as a trigger to enter a bonus game or to award a bonus. At module 9880, the gaming device is used to play the bonus game, such as an interactive game, 40 tournament game or a game with enhanced payouts, for example.

FIG. 99 illustrates an embodiment of a process of a slot accounting server interacting with a game machine. Process 9900 initiates at module 9910 with receipt of base game data at the slot accounting server—such as result data for a game. The data is then integrated into the accounting system, such as by increasing a player balance or account value at module 9920. At module 9930, any bonus to be transferred to the gaming device is sent to the gaming device.

FIG. 100 illustrates an embodiment of a process of operating a rewards server. Process 10000 initiates with receipt of a player identification (e.g. player identity information and security information such as a PIN) at module 10010 from a gaming device. At module 10020, the player identity is authenticated, such as through use of a separate server or system, or through a lookup or encryption process, for example, and the results are sent back to the gaming device. At module 10030, personalized data for the player is looked up, either at the rewards server or at a separate server such as a player marketing server, for example. At module 10040, the personalized data is sent to the gaming device.

At module 10050, game data is received at the rewards server from the gaming device. At module 10060, the game data is analyzed, such as to determine if a rewards threshold has been met, or to accumulate rewards points. At module 10070, bonus data is sent to the gaming device, such as a bonus jackpot (increased prize). At module 10080, a bonus

trigger (or triggers) is sent to the gaming device, such as may trigger entry into a bonus game or tournament mode.

FIG. 101 illustrates an embodiment of a gaming system as used with the processes of FIGS. 98-100, for example. The system in which such processes function may also help illustrate the data flow. System 10100 is an embodiment of a gaming system, similar to that of FIG. 97, for example. Game device 10110 is a gaming device with a base game 10120 and a rewards module 10130 coupled thereto. Also included is a slot accounting server 10140 and a rewards server 10150. Not shown are other game devices essentially identical to game device 10110. Other components (e.g. servers, interfaces, etc.) may also be included.

Using a first protocol, the slot accounting server 10140 communicates with the base game 10120, receiving game data and transmitting bonus data (such as bonus amounts, for example). Using a second protocol, base game 10120 and rewards module 10130 communicate base game data and personalization data. The second protocol may potentially communicate bonus data or rewards data as well. Triggers of bonus games may also be communicated using the second protocol. A third protocol is used for communication between rewards module 10130 and rewards server 10150, for the purpose of communicating user identifying data, authentication responses, personalization data, bonus data, bonus triggers (triggering bonus games such as tournament games) and game data. The same protocols may be used with other game devices in the system 10100 as well.

The system further provides the opportunity to transfer 30 bonuses and payouts from one device to another, or to a server. FIG. 102 illustrates an embodiment of a process of paying out and transferring payouts. Process 10200 initiates with receipt of a payout request over a predetermined limit or threshold at module 10210. Such as threshold may be based 35 on tax regulations, player credit limits, or other factors. At module 10215, the payout is deferred, with a message to the player or user. Three options then come into play. At module 10220, the machine may receive employee authorization to pay out the higher amount. This would typically be accompanied by provision of tax data (e.g. a tax form for the payout) at module 10225 and provision of the actual payout at module

Alternatively, the payout may be transferred to the rewards server at module 10240 or the payout may be transferred to 45 the slot accounting server at module 10250. From here, the payout may be handled by transfer to a cage processing machine at module 10260 or by transfer to another machine (e.g. another gaming machine) at module 10270. A transfer to a cage processing machine at module 10260 essentially 50 implies a payout, and the process may be expected to transition to module 10220 with employee authorization at the game processing machine. A transfer to another gaming machine at module 10270 may also be handled with a payout through employee authorization at module 10220. Alterna-

112

tively, the bonus or payout may be used by the player at the other machine by playing the machine with the payout at module 10280.

FIG. 103 illustrates an embodiment of a gaming system as used with the process(es) of FIG. 102, for example. Game 10310 is a game at which the payout is received or observed—and deferred. The payout may then be transferred to slot accounting server 10320 or to rewards server 10330. The payout may then be transferred to cage machine 10340, where an employee may administer the payout. Alternatively, the payout may be transferred to another game 10350, where an employee may administer a payout, or the player may play with the winnings. Thus, the player need not wait around for an employee to pay a large payout—the casino can potentially recoup some of the payout through further play, for example.

Further discussion of the protocols and the system of a specific implementation and embodiment may provide additional illustrations. The following discussion does not necessarily apply to all implementations or embodiments—it represents an example embodiment. Referring further to FIG. 97, an embodiment of a networked gaming system is shown with a player rewards server, a CMP/CMS server, an SDS or SMS server, a GameNet Bridge router, and a gaming machine, where each of the elements may be representative of multiple units which may be connected to function and connect as shown. Within the gaming machine, a game management unit (GMU) connects from the GameNetBridge to a base game processor board, such as a Bally Alpha game board, and to a player interface unit, such as a Bally iView. Within the player interface unit block, executable code is contemplated to be stored on a player interface processor board and may include operating system code, such as Bally iViewShell.exe, player rewards code or callable module, such as Bally CasinoMagic, game code, such as Game.exe, and GMU-related code for providing an information channel between the GMU, base game and player interface unit. Various communication protocols are shown on the respective connecting branches.

... Message Protocols—Servers—GMU ...

SDS Freeform Messaging Protocol

10220, the machine may receive employee authorization to pay out the higher amount. This would typically be accompanied by provision of tax data (e.g. a tax form for the payout) at module 10225 and provision of the actual payout at module 10230.

Alternatively, the payout may be transferred to the rewards

This document defines new message types designed to facilitate more flexible messaging between the Gmu and RS6000 of the SDS system. It allows direct targeting of messages to specific applications and devices, transfer of large blocks of data in a single transaction, and a flexible response mechanism to insure data receipt.

The transport layer of the protocol allows for an embedded application layer in a message.

Transport Layer

The following tables show the transport layer format for two new messages. The first is generated from the RS6000, destined for the Gmu. It has a format that is compatible with existing SDS messaging—it is a new type of unicast message. The second is generated from the Gmu, destined for the RS6000. Again, it has a format that is compatible with existing SDS messaging—it is a new type of exception code message.

| Description      |   | RS6K<br>position | RS6K format   | GMU<br>length | GMU<br>position | GMU format    | Notes   |
|------------------|---|------------------|---------------|---------------|-----------------|---------------|---|
|                  |   |                  | sD/cFI        | B and sE/cl   | FC (RS6K to     | GMU Freeform) |   |
| CIU special code | 2 | 1-2              | "sD" or "sE"  |               |                 |               | sD = requires response, sE = No response required |
| Line#            | 1 | 3                | Ad, '1'-'4'   |               |                 |               |   |
| GMU address      | 2 | 4-5              | Ah, "05"-"FF" | 1             | 1               | B, S05-SFF    |   |
| Poll Code        |   |                  |               | 1             | 2               | B, SFB or SFC | FB = requires respone FC = No response required   |
| Session ID       | 2 | 6-7              | Ah, "01-"FF"  | 1             | 3               | B S01-SFF     | TCP/IP Service number                             |
| Transaction ID   | 2 | 8-9              | Ah, "01"-"FF" | 1             | 4               | B, S01-SFF    | Links all messages used to transmit a data set    |

.

114

| -continued |
|------------|
|------------|

| Description       |       | RS6K<br>position | RS6K format      | GMU<br>length | GMU<br>position | GMU format   | Notes   |
|-------------------|-------|------------------|------------------|---------------|-----------------|--------------|---|
| Segment#          | 4     | 10-13            | Ah, "0001-"FFFF" | 2             | 5-6             | B, S01-SFFFF | Identifies this segment                       |
| Total Segments    | 4     | 14-17            | Ah,"0001-"FFFF"  | 2             | 7-8             | B, S01-SFFFF | total number of segments in a data set        |
| Data length       | 2     | 18-19            | Ah, "00-"E0"     | 1             | 9               | B, S00-SE0   | Reflects length of next field                 |
| Data              | 0-224 | 20 to 243        | В                | 0-224         | 10-233          | В            | String of GMU commands                        |
| Checksum          |       |                  |                  | 1             | 9 to 234        | В            | 2's compliment checksum of all fields         |
| Carriage return   | 1     | 20 to 244        | const CR (S0D)   |               |                 |              | -   |
|                   |       |                  | Туг              | e A2 (G       | MU to RS6K      | Freeform)    |   |
| Start of text     | 1     | 1                | const STX (s02)  |               |                 |              |   |
| CIU function code | 1     | 2                | Ah, '3'          |               |                 |              |   |
| Line#             | 1     | 3                | Ad, '1'-'4'      |               |                 |              |   |
| GMU address       | 2     | 4-5              | Ah, "05-"FF"     | 1             | 1               | B S05-SFF    |   |
| Message type      | 2     | 6-7              | const "A2"       | 1             | 2               | const SA2    |   |
| Exception code    | 2     | 8-9              | Ah               | 1             | 3               |              | Denotes message function see Note 1           |
| Session ID        | 2     | 10-11            | Ah, "01-"FF"     | 1             | 4               | B S01-SFF    | _   |
| Transaction ID    | 2     | 12-13            | Ah, "01-"FF"     | 1             | 5               | B, S01-SFF   | Links all messages used to tranmit a data set |
| Segment#          | 4     | 14-17            | Ah, "0001-"FFFF" | 2             | 6-7             | B, S01-SFFFF | identifies this segment                       |
| Total Segments    | 4     | 18-21            | Ah, "0001-"FFFF" | 2             | 8-9             | B, S01-SFFFF | Total number of segments in a data set        |
| Data length       | 2     | 22-23            | Ah, "00-"E0"     | 1             | 10              | B, S00-SE0   | Reflect length of next field                  |
| Data              | 0-224 | 24-247           | В                | 0-224         | 11-234          | В            | Application responses                         |
| Checksum          | 2     | 24 to 248        | Ah               | 1             | 11 to 235       | В            | 2's compliment checksum of all fields         |
| Carriage return   | 1     | 25 to 249        | const CR (S0D)   |               |                 |              | •   |

35

Formats

A ASCII

Ah ASCII coded hexadecimal

Ad ASCII coded decimal

B Binary (no conversions)

Note 1: B7 = Ack to system message,

B8 = Nack to system message

B9 = Gmu initiated, no response required

BC = Gmu initiated, response required

A sD/FB message is used when a transport response is required from the GMU upon receipt. A sE/FC message is used when a transport response is not required.

The transport response from the Gmu is a type A2 message. The exception code field will indicate the type of transport response being sent from the Gmu (ACK, NAK). On receiving a NAK from the Gmu for a particular sD/FB message, the RS6000 will re-send the message. For successive NAKs, the message will be re-sent five times before it is abandoned.

Exception codes B9 and BC will be used by the Gmu for any messages sent in a Gmu initiated transaction. Both of these exception codes require a transport level Ack. A B9 exception codes will consider an A0 response a transport level Ack. A B0 or no response will be considered a Nak. A BC exception code requires a freeform ack as a transport level Ack. A freeform ack is a sE/FC message with matching 50 session Id, segment, and transaction Id fields.

The Gmu will resend a message 5 times before it is abandoned. The Gmu will not send another message until an ack is received, or the message is abandoned.

## Session ID

The session ID field is used to route messages to the correct service at the RS6000 (i.e., SDS, GameTrack, CMS, etc.) Response message from the Gmu will copy the session ID from the message being responded to. For multiple segment transactions, if a segment is received with a session ID not matching that of the current transaction and a response is required for the current segment, the Gmu will respond with a NAK containing the expected session ID. The Session number in a Gmu Initiated transaction will be \$80 or'd with the application target ID. (I.e. Tickets=\$8A).

Currently Defined Session IDs:

| Session ID | Service                    |
|------------|----------------------------|
| 0          | (Denotes GameNet GMU       |
|            | Status Msg)                |
| 1          | Intrepid                   |
| 2          | GMU Settings               |
| 9          | Cash Cage (obsolete)       |
| 10         | Tickets                    |
| 11         | Tickets                    |
| 14         | eCash                      |
| 15         | Accounting                 |
| 16         | GMU Event (Printer Status) |
| 17         | Comp Printing              |
| 18         | GMU Authentication         |
| 41         | Directed DMK Fills         |
| 126        | GMU Debug                  |

Transaction ID

The transaction ID field is used to associate different messages of a particular transaction. All segments of a transaction will have the same transaction ID. Response message from the Gmu will copy the transaction ID from the message being responded to. For multiple segment transactions, if a segment is received with a transaction ID not matching that of the current transaction and a response is required for the current segment, the Gmu will respond with a NAK containing the expected transaction ID.

Segment# and Total Segments

The segment# and total segments fields are used to identify individual segments composing a single transaction. Each segment of a particular transaction is sent sequentially. Regardless of the function code of either of these messages (cFB or cFC), the Gmu will transmit a transport level NAK if a segment is received out of sequence. In this case, the Gmu will send the NAK with segment# and total segment fields

showing the segment expected by the Gmu. Further, for multiple segment transactions, if a segment is received with a total segments field not matching that of the current transaction and a response is required for the current segment, the Gmu will respond with a NAK containing the expected total segments value. Further, if an ACK is sent in response to a sD/FB, the segment# and total segments fields of the ACK will reflect the transport segment being acknowledged.

Data

The data field is used to transport the application layer data. <sup>10</sup> This field can hold singular, multiple, or partial application layer commands in each segment of a transaction. On full transport of a transaction, no partial commands should remain.

Application Layer

Application data is transported via the data field of the freeform messages. Within a single transaction or segment, multiple application layer commands may be transported. This is done using the following command block application layer format.

| 1 byte    | 1 byte              | 0 to 255 bytes    |
|-----------|---------------------|-------------------|
| Target ID | Parameter<br>length | Parameter<br>data |

Each command block consists of at least two bytes, a target ID and a parameter length. Parameter data is optional. If a command block excludes a parameter data field, the block's parameter length value is zero. For transporting multiple command blocks, within a single message's data field, they can be strung together as in the following example.

|              | Message Data Field       |                   |              |                          |                   |                |  |  |
|--------------|--------------------------|-------------------|--------------|--------------------------|-------------------|----------------|--|--|
| 1s           | t Commar                 | ıd block          | 2n           | d Comma                  | nd block          | _              |  |  |
| Target<br>ID | Param-<br>eter<br>length | Parameter<br>data | Target<br>ID | Param-<br>eter<br>length | Parameter<br>data | More<br>blocks |  |  |

Target ID

The target ID is used to indicate which Gmu application is the target of a particular command block. The parameter data field then becomes the parameter sent to the particular target application. Note the parameter data format is defined by the particular target it is meant for. The following table shows 50 currently supported targets.

| Target | i ID | Description                        |   |
|--------|------|------------------------------------|---|
| 1      |      | Intrepid                           | : |
| 2      |      | Gmu variable action                |   |
| 3      |      | EPI                                |   |
| 4      |      | Reserved                           |   |
| 5      |      | Application qualifier              |   |
| 6      |      | Application response configuration | ( |
| 7      |      | Application response echo          |   |
| 8      |      | Default I/O                        |   |
| 9      |      | Cash Cage (obsolete)               |   |
| 10     |      | Tickets                            |   |
| 11     |      | Security                           |   |
| 12     |      | Test Box                           | ( |
| 13     |      | Unused                             |   |

116
-continued

|     | Target ID | Description                   |
|-----|-----------|-------------------------------|
| -   | 14        | EFT Transactions              |
|     | 15        | Accounting Meters             |
|     | 16        | GMU Event                     |
|     | 17        | Printer                       |
|     | 18        | GMU Authentication            |
|     | 19        | System to EPI Display Message |
|     | 20        | Game Info                     |
| ) _ | 126       | Debug Functions               |

Target ID #5 is a special kind of target. The application qualifier target allows the sender to continue/discontinue processing the remainder of the application layer dependent on the current state of the GMU. See the following section on Application qualifier for further detail.

Parameter Length

The parameter length byte is used to indicate the number of bytes comprising the following parameter data field. The range of this length is 0 to 255.

Application Response

The target ID can be logically Or'd with \$80 (128) to denote application level response required from receiver. An application level response is similar to the transport level response, except the segment# and total segment fields are zero. Additional data included in the response is dependent on the target.

Target Definitions

The following section defines each of the currently supported targets.

Target: GMU Variable Action

This target allows the caller to take specific actions on internal Gmu variables. The parameter data for this target uses its own sub-format as follows:

Variable ID Value

The default response operation is a variable action command block with the variable action Id as data (i.e. Cardless play time-out response 2,1,1). If this target receives a response required flag and an illegal or unsupported variable ID, it will application NAK with (2, 1, variable ID) in its data field.

The Gmu can request a variable by sending a Variable Action command block with the desired Variable Id as data. (i.e. to request Cardless play time-out the Gmu would send the command block 2,1,1)

Cardless Play Time-Out Set (Variable ID=1)

This action uses the following value structure. See Cardless Play feature documentation for details.

| <i>ээ</i> |   |
|-----------|---|
|           |   |
|           |   |
|           | D A 1'' ACIZ 1' '41.0                                   |
|           | Response operation Application ACK on completion with 2 |

Response operation Application ACK on completion with 2, 1, 1 in data field.

Value structure UINT, 0 = disable, 1-65535 = time-out (seconds)

Interval rating, coins to qualify set (Variable ID=2)

This action uses the following value structure. See Free-Play feature documentation for details.

|  |  | UINT, 0 = disable, 1-65535 = coins to qualify<br>Application ACK on completion with 2, 1, 2<br>in data field. |
|--|--|---|
|--|--|---|

117

Bonus points subtraction (Variable ID=3)

This action uses the following value structure. See Club Points to Cash feature documentation for details.

Value structure UINT (points to subtract)

Response Operation

Application ACK on completion with 2, 1, 3 in data field. ACK on Points to subtract greater than actual points with 2, 2, 3, and 1 in data field. Note: Variable Id's 4 through 7 are values used in the ticket printing system. The Gmu request these values by sending a variable action command block with the variable Id as data(i.e. 2,1,4 would request a ticket number). The command block is sent in a BA exception code, so the values are returned in the response.

Ticket Number

Value structure STRING3 (Starting ticket number, 6 BCD encoded digits)

Ticket System Slot Id

Value structure STRING3 (Slot Id used in ticket printing, 6 BCD encoded digits)

Ticket Print Date

Value structure STRING3 (Date to be printed on Ticket, 6 25 BCD encoded digits mm/dd/yy)

Ticket Expiration Date

Value structure STRING3 (Expiration date to be printed on Ticket, 6 BCD encoded digits mm/dd/yy)

Ticket Key

Value structure STRING16 (Encryption seed for ticket Crc)
Liability Limit

Value structure (undefined)

New GMU variables have been added for Gemini that effect how the GMU handles EFT. The EFT System Characteristics flags are set by the system to enable or restrict the type of EFT actions allowed at the game. The EFT Transaction Timeout allows the system to set the amount of time the 40 GMU will wait for EFT application responses before canceling the transaction. The EFT Withdrawal Amounts allow the system to set the values for the 5 withdrawal amount options.

#### SDS EFT Characteristics

The SDS EFT Characteristics are a set of 3 bit mapped bytes. These flags determine what type of EFT, if any, the SDS system allows for the slot. If a SDS EFT flag is turned off it takes precedence over the corresponding player characteristic flag.

| Field               | Length | Туре | Description   |
|---------------------|--------|------|---|
| SDS Characteristics | 3      | ВҮТЕ | 24 bit mapped flags that<br>determine what type of<br>EFT actions the SDS<br>system allows. |

| Bit                   | Meaning   |    |
|-----------------------|---|----|
| 1<br>2<br>3<br>4<br>5 | EFT Transactions Allowed<br>Allow Cashable Deposits<br>Allow Non-Cashable Deposits<br>Allow Redeem Offers<br>Allow Points Withdrawal<br>Allow Cash Withdrawal | 60 |
| 7<br>8-24             | Allow Partial Transfers<br>Undefined  | 65 |

118

**EFT Transaction Timeout** 

| Field             | Length | Туре | Description  |
|-------------------|--------|------|--|
| EFT Timeout Value | 1      | BYTE | The number of seconds the GMU should wait for EFT responses from the system. |

**EFT Withdrawal Amounts** 

This message sets the value of various EFT withdrawal options. If the amount field is 0 then the corresponding withdrawal option is turned off and not displayed to the player. If the amount field is 99999999 then the value of the option is the player's remaining balance.

| Field                         | Length | Type | Description  |
|-------------------------------|--------|------|--|
| Option 1 Withdrawal<br>Amount | 4      | BCD  | The withdrawal amount if the player selects option 1 |
| Option 2 Withdrawal<br>Amount | 4      | BCD  | The withdrawal amount if the player selects option 2 |
| Option 3 Withdrawal<br>Amount | 4      | BCD  | The withdrawal amount if the player selects option 3 |
| Option 4 Withdrawal<br>Amount | 4      | BCD  | The withdrawal amount if the player selects option 4 |
| Option 5 Withdrawal<br>Amount | 4      | BCD  | The withdrawal amount if the player selects option 5 |

Time of Day

This message sends the current time of day.

| Field       | Length | Туре | Description  |
|-------------|--------|------|--|
| Time of Day | 3      | BCD  | The current time of day. The format is HHMMSS. It uses 24-hour clock, so 11:17:28 PM would be sent as 231728. When sent by the system the time has been adjusted for time zone and daylight saving time. |

Use: If this variable ID is sent without a data segment (82,1, \$0d) then it will be seen as a request for the time of day. The response will be either this block with a 3 byte data segment that contains the time of day or else an application nak (2,2, \$0d, 0) indicating that the current time is not available.

Target: EPI

This target allows the caller to control any Epi device connected to the Gmu.

The parameter data for this target is a subset of the Epi bus message. It will consist of the Epi device address, and the Epi command as defined in the Epi Bus Protocol.

| Epi address |   |      | Epi command |     |  |    |   |     |
|-------------|---|------|-------------|-----|--|----|---|-----|
| 7771        | 1 | C 11 | C + 1       | 1 1 |  | .1 | G | •11 |

The data field of Acknowledgments from the Gmu will contain the Epi device address.

Target: Application Qualifier

This target allows the caller to continue/discontinue pro-65 cessing of the application layer of the message based on qualifiers. The parameter data for this target uses its own sub-format as follows: Qualifier ID Value

The following lists currently supported qualifier IDs (see end of document for type abbreviation details).

Player Card ID Equivalent (Qualifier ID=1)

This qualifier uses the following value structure. If the player card ID currently at the GMU differs from the value sent here, the GMU will discontinue processing of the remaining application layer of the transaction.

Value structure STRING10 (player ID)

Response Operation

Application ACK on completion with 5, 2, 1, x in data field. x will be zero if the GMU does not qualify and one if it does. 15 Player Card Present/Not (Qualifier ID=2)

This qualifier uses the following value structure. If the state of a player card being present or not currently at the GMU differs from the value sent here, the GMU will discontinue processing of the remaining application layer of the transaction.

Value structure BYTE, 0=player card not present, 1=player card present

Response operation Application ACK on completion with 5, 2, 2, x in data field. x will be zero if the GMU does not  $^{25}$  qualify and one if it does.

Other Response Operations

If this target receives a response required flag and an illegal or unsupported qualifier ID, it will application NAK with (5, 1, qualifier ID) in its data field.

Target: Application Response Configuration

This target allows the caller to configure all successive application reply messages. The parameter data for this target uses its own sub-format as follows:

| Configuration | Value |
|---------------|-------|
| ID            |       |

The following lists currently supported configuration IDs (see end of document for type abbreviation details).

Player Data (Configuration ID=1)

The value of this configuration selects the data to be added to successive application Acks. This configuration uses the <sup>45</sup> following value structure.

Value structure BYTE (bitmap)

Response Operation

No application ACK is sent from this target. Bitmap

|             | Bit               |   |   |   |   |   |   |         |
|-------------|-------------------|---|---|---|---|---|---|---------|
|             | 7 (MSB)           | 6 | 5 | 4 | 3 | 2 | 1 | 0 (LSB) |
| Description | Player card<br>ID | X | X | X | X | X | X | X       |
| Format      | STRING10          |   |   |   |   |   |   |         |

If the Player card ID position of the BYTE is set (1), the ACK from the next target, will include a 6, \$0C, 1, j, k command block its data field. For example, the Default I/O, Player query (8.2) target would ACK with 6, \$0C, 1, j, k, 8, x, 2, y in its data field. Where j is the one byte value of the 65 bitmap, k is the STRING10 player card ID, y is a string containing the player response, and x is 1+the length of y.

120

Other Response Operations

If this target receives a response required flag and an illegal or unsupported configuration ID, it will application NAK with (6, 1, configuration ID) in its data field.

Target: Application Response Echo

This target allows the caller to configure all successive application reply messages to echo the parameter portion of this command block.

Any data in the parameter portion of this command block is returned in any succeeding application responses from the GMU.

The receiver ignores an acknowledgment flag in this target ID. The application reply (for example, from the Default I/O, Player query (8.2) target) would ACK with 7, j, k, 8, x, 2, y in its data field. Where j is the length of the received parameter, k is the echoed parameter, y is a string containing the player response, and x is 1+the length of y.

Target: Default I/O

This target allows the caller to perform default type I/O at the GMU. The parameter data for this target uses its own sub-format as follows:

Action ID Argument

The following lists currently supported actions (see end of document for type abbreviation details).

Display Text (Action ID=1)

This action uses the following argument structure.

Argument structure TEXT, string to display

Response Operation

35

Application ACK on start of display with  $8,\,1,\,1$  in data field.

Player Query (Action ID=2)

This action uses the following argument structure. See Player Query feature documentation for details.

Argument structure BYTE (length of question text)+ 40 TEXT (question)+

BYTE (length of prompt text)+TEXT (prompt)+

BYTE (response width, in decimal digits)+

BYTE (response timeout, in seconds)

Response Operation

Automatic application ACK on player responding within response timeout with 8, x, 2, y in data field. Where, y is a string containing the player response and x is 1+the length of y. If the response width was zero, the data will be 8, 1, 2.

Set Lockout (Action ID=3)

This action uses the following argument structure.

Argument structure BYTE, 0=Lockout off, 1=Lockout on Response Operation

Application ACK after Lockout switched with 8, 1, 3 in data field.

Other Response Operations

If this target receives a response required flag and an illegal or unsupported action ID, it will application NAK with (8, 1, action ID) in its data field.

Target: Cash Cage (Obsolete)

Cash Cage is the Bally bill hopper for slot machines. This hopper pays the player in bills instead of coins. Please see Bally gaming's "Bill Hopper and Cassette memory Subsystem specification", and Bally System's "Bally Cash Cage interface" document for further details on the operation of this device.

The parameter data for this target uses its own sub-format as follows:

| Cash Cage Parameter Data |  |  |  |  |
|--------------------------|--|--|--|--|
| Field                    | Description  |  |  |  |
| Message<br>type          | 1 byte message descriptor (1 to 7)                         |  |  |  |
| Data                     | The data associated with that message type (0 to 33 Bytes) |  |  |  |

| Cash Cage Message Types |                              |  |  |  |
|-------------------------|------------------------------|--|--|--|
| 1                       | Bill Cassette Assigned       |  |  |  |
| 2                       | Bill Cassette Removed        |  |  |  |
| 3                       | Bill Cassette Installed      |  |  |  |
| 4                       | Bill Cassette Report         |  |  |  |
| 5                       | Bill Cassette Meters         |  |  |  |
| 6                       | Bill Cassette Tilt           |  |  |  |
| 7                       | Bill Cassette Report         |  |  |  |
|                         | Request                      |  |  |  |
| 8                       | Bill Cassette Enable/disable |  |  |  |
| 9                       | Bill Cassette Date and       |  |  |  |
|                         | Time set                     |  |  |  |

Message Types 1 through 6 are Gmu to system messages, 7 through 9 are system to Gmu messages.

Bill Cassette Full Information Message Types

Message types 1 through 4 are referred to as full information types; the data for these messages contains the following fields.  $^{30}$ 

| Bill Cassette full Information Message Data |         |      |                                   |  |  |
|---|---------|------|-----------------------------------|--|--|
| Field                                       | Length  | Туре | Description                       |  |  |
| Cassette ID                                 | 4 Bytes | Bcd  | Permanent Id of Cassette          |  |  |
| Game Id                                     | 4 Bytes | Bcd  | Game Identification               |  |  |
| Bill Denomination                           | 2 Bytes | Bcd  | Denom of Bills                    |  |  |
| Fill Count                                  | 2 Bytes | Bcd  | Number of fills                   |  |  |
| Dispensed Count                             | 2 Bytes | Bcd  | Total Bills Dispensed             |  |  |
| Escrowed Count                              | 2 Bytes | Bcd  | Total Bills Escrowed              |  |  |
| Test Count                                  | 2 Bytes | Bcd  | Total Bills dispensed during test |  |  |
| Overpaid Count                              | 2 Bytes | Bcd  | Total Bills overpaid              |  |  |
| Date Installed                              | 6 Bytes | Bcd  | Date of installation              |  |  |
|   |         |      | (YYYYMMDDhhmm)                    |  |  |
| Date Filled                                 | 6 Bytes | Bcd  | Date of the last fill             |  |  |
|   |         |      | (YYYYMMDDhhmm)                    |  |  |
| Docking Station Flag                        | 1 Byte  | Byte | 1 = Docking station               |  |  |
|   |         |      | 0 = No docking station            |  |  |

Message types 1 through 3 are sent when the associated  $^{50}$  event occurs at the game. Message type 4 will only be sent in response to a Bill cassette report request.

Bill Cassette Meters Message Type

Message type 5 will update the bill cassette meters, it will be sent immediately following any exception code if there has been a change in the cash cage meters since the last exception code. It will always be sent following a Gmu power up, Game power up, or Forced periodic exception code. The data for this message type is as follows.

Bill Cassette Meters Message Data

| Field              | Length | Туре | Description              |
|--------------------|--------|------|--------------------------|
| Cassette Id        | 4      | Bcd  | Permanent id of Cassette |
| Dispensed<br>count | 2      | Bcd  | Total Bills dispensed    |

122

-continued

|    | Field             | Length | Туре | Description                          |
|----|-------------------|--------|------|--------------------------------------|
| 5  | Escrowed<br>Count | 2      | Bcd  | Total Bills Escrowed                 |
|    | Test Count        | 2      | Bcd  | Total Bills dispensed<br>during test |
| 10 | Overpaid<br>Count | 2      | Bcd  | Total bills overpaid                 |

Bill Cassette Tilt and Time Request Message Types

Message type 6 reports any Cash Cage tilts, or date and <sup>15</sup> time request. The data for this type is as follows.

Bill Cassette Tilt Message Data

| 20 | Field                    | Length | Type | Description                              |
|----|--------------------------|--------|------|--|
|    | Cassette Id              | 4      | Bcd  | Permanent Id of                          |
|    | Cassette Message<br>Code | 2      | Text | Tilt code (0, 1, 2, 3, 4, 5, 6, 7, 8, 9) |
| 25 | Cassette Message<br>Data | 0 to 8 | Text | Tilt Data                                |

#### Tilt Codes

40

6

| Code | Description                          | Data                          |  |  |  |
|------|--------------------------------------|-------------------------------|--|--|--|
| 0    | Bill hopper Empty                    |                               |  |  |  |
| 1    | Invalid Crc                          |                               |  |  |  |
| 2    | Bill hopper overpay                  |                               |  |  |  |
| 3    | Bill hopper removed                  | 0 = removed, 1 =<br>Installed |  |  |  |
| 4    | Game Id mismatch                     | Game Id in Bcd (4<br>Bytes)   |  |  |  |
| 5    | Bill hopper jam                      |                               |  |  |  |
| 6    | bill rejected/Escrowed               |                               |  |  |  |
| 7    | Bill hopper low                      |                               |  |  |  |
| 8    | bill hopper denomination<br>mismatch |                               |  |  |  |
| 9    | Bill Owed                            |                               |  |  |  |
| A    | Date and time request                |                               |  |  |  |
|      |                                      |                               |  |  |  |

#### Bill Cassette Report Request

Message type 7 will be sent to request a Bill Cassette report from the Gmu. No additional data is sent with this message type.

Response operation: If an Application response is required the Bill cassette report message will be sent in the Ack exception code. A Nak will be contain 9,1,7 in the data field of the Nak exception code.

Bill Cassette Enable/Disable

Message type 8 will be sent to the Gmu to enable or disable the Bill Cassette.

| 50 | Field          | Length | Type | Description             |
|----|----------------|--------|------|-------------------------|
|    | Enable/Disable | 1      | Byte | 0 = disable, 1 = enable |

Response operation: If an Application response is required the Gmu will respond with 9,1,8, in the data field of the Ack or Nak exception code.

25

35

Message type 9 will be sent to the Gmu in response to a Time and Date request message.

| Field                   | Length | Туре         | Description    |
|-------------------------|--------|--------------|----------------|
| Date and time<br>string | 14     | STRING<br>14 | MMDDYYYYhhmmss |

Response operation: if an application response is required the Gmu will respond with 9,1,9 in the data field of the Ack or Nak exception code.

Target: Ticket Processing

A ticket is a bar code slip that can be redeemed at a slot by 15 inserting it in the note acceptor. A slip printer can also be located at the game to print tickets. This target defines the messages used to transport ticket information to the system.

The parameter data for this target uses its own sub-format as follows:

Ticket Parameter Data

| Field        | Description                                |
|--------------|--|
| Message      | 1 byte message descriptor                  |
| type<br>Data | The data associated with that message type |

#### Ticket Message Types

| 1 | Ticket Printed         |  |
|---|------------------------|--|
| 2 | Ticket Void            |  |
| 3 | Ticket Redemption      |  |
| 4 | Redemption Complete    |  |
| 5 | Ticket Printing Status |  |
| 6 | Ticket Printing Status |  |
|   | Response               |  |
|   |                        |  |

All ticket processing messages will have an Application  $_{40}$  response configuration command block with the player card number.

Ticket Printed

This message is sent when a ticket has been sent to the printer to be printed.

| Field     | Length | Туре | Description  |
|-----------|--------|------|--|
| Ticket Id | 9      | BCD  | Coupon number as generated by the Gmu Value of the ticket $0 = \operatorname{cashable}, 1 = \operatorname{non-cashable}$ |
| Amount    | 4      | BCD  |  |
| Type      | 1      | BYTE |  |

The Ticket Id is derived from the variables Ticket number, Ticket System Slot Id, These values are set at power up with  $_{55}$  . Gmu Variable action messages.

Ticket Void

This message is sent when a printer was not able to print a ticket. It is used to void a ticket Id previously sent in a ticket Printed message.

| Field     | Length | Type | Description       |
|-----------|--------|------|-------------------|
| Ticket Id | 9      | BCD  | Ticket identifier |
| Error     | 1      | BYTE | Error code.       |

124

Ticket Void Error Codes

| Value | Error                |
|-------|----------------------|
| 0     | Unknown              |
| 1     | Paper out            |
| 2     | Paper jam            |
| 3     | Paper low            |
| 4     | Printer comm failure |

Ticket Redemption Request and Ticket Redemption Response

The Gmu sends this when a ticket is inserted into the note acceptor.

| Field     | Length | Type | Description       |  |
|-----------|--------|------|-------------------|--|
| Ticket Id | 9      | BCD  | Ticket identifier |  |

The system responds with a ticket redemption response to authorize the redemption.

| Field                       | Length      | Туре               | Description  |
|-----------------------------|-------------|--------------------|--|
| Ticket Id<br>Amount<br>Type | 9<br>4<br>1 | BCD<br>BCD<br>BYTE | Ticket identifier Value of the Ticket 0 = cashable, 1 = non-cashable |

Ticket Redemption Complete

This is sent to inform the system of the final status of ticket redemption.

| Field     | Length | Туре | Description                          |
|-----------|--------|------|--------------------------------------|
| Status    | 1      | BYTE | 0 = Success, errors are listed below |
| Ticket Id | 9      | BCD  | Ticket identifier                    |
| Amount    | 4      | BCD  | Value of the Ticket                  |
| Type      | 1      | BYTE | 0 = cashable, 1 = non-cashable       |

Ticket Redemption Status Values

| 45 | Value | Meaning                    |  |
|----|-------|----------------------------|--|
|    | 0     | Success Coupon rejected by |  |
|    | 1     | system                     |  |
| =0 | 2     | System comm time out       |  |
| 50 | 3     | Tilt during transaction    |  |
|    | 4     | Blackout during            |  |
|    |       | transaction                |  |
|    | 5     | Game comm time out         |  |
|    | 6     | Value look up table        |  |
|    |       | error                      |  |
| 55 |       |                            |  |

Response Operation

All ticket processing messages will be sent in a BA exception code, with an application ack required. The Ticket Redemption Request will consider the Ticket Redemption Response an application ack. All other messages will consider an empty ticket process command block an application response.

**Ticket Printing Status** 

The system will send the Ticket Printing Status block to the GMU query or set the GMU's current ticket printing status. The data portion of the consists of a single command byte.

| Field   | Length | Туре | Description   |
|---------|--------|------|---|
| Command | 1      | BYTE | 0 = Disable Tickets<br>1 = Enable Tickets<br>2 = Query Current Ticket<br>Status |

If the command byte=2 (query) or the application response bit is set on the target ID then the GMU will respond with a Ticket Printing Status Response block.

Ticket Printing Status Response

The GMU will send the Ticket Printing Status Response block in response to a Ticket Printing Status block from the system. It is used to inform the system of the current state of tickets on the GMU. The data portion of the consists of a single status byte.

| Field  | Length | Туре | Description   |
|--------|--------|------|---|
| Status | 1      | BYTE | 0 = Tickets Disabled<br>1 = Tickets Enabled<br>2 = Not a Ticket Capable<br>Game |

Target: Security

This target allows the encryption of freeform command blocks. This is accomplished by embedding the command blocks in the Security command block. The command blocks are embedded by including the length of the command blocks in the parameter length of the Security command block.

The parameter data for this target uses its own sub-format as follows:

Ticket Parameter Data

| Field                              | Description   |   |
|------------------------------------|---|---|
| Encryption Type<br>Encryption data | Byte Algorithm type.     Any data needed for the encryption algorithm |   |
| Embedded command<br>blocks         | The encrypted freeform command blocks                                 |   |
| Encryption Types                   |   | 4 |
| 1                                  | Test  |   |
| 2                                  | Sds Encryption  |   |
| 3                                  | Sds Key exchange (old)  |   |
| 4                                  | Sds Authentication  |   |
| 5                                  | Sds Encryption and Sds Authentication                                 |   |
| 6                                  | Key Exchange Start  |   |
| 7                                  | Key Exchange End  |   |

i.e. an encrypted Ticket Print Message using the test encryp-

## \$0B,\$19,1,xxxx,(\$0A,\$12,000000000000000001)

xxxx=four bytes of test encryption data,

data enclosed in braces would be encrypted.

Response Operation

The application response will be a Security command block with the encryption type and one status byte.

The status byte will=1 if the encryption was successful, 0 if not.

Sds Encryption, Sds Authentication and Sds Key Exchange 6: If this security method is being used a Sds key exchange with the node's partial key must be sent on power up. The

responding node will send a security response, and a Sds key exchange command block with its partial key.

Whenever a Sds key exchange is being sent it must always be the first command block, to ensure that any subsequent command blocks can be decrypted.

The old Key Exchange (encryption type=3) assumed that key exchanges would be initiated by the GMU and that the first message would be a key exchange block with no data (signifying a request to the system to send a new system key). The new key exchange blocks (types 6 and 7) do not assume a request from the GMU. With these either side may initiate a key exchange, and the key start will contain that side's partial key.

If Sds encryption is being used and encryption fails, the response message will have a Sds key exchange command block. The sending node will re-send the failed message with a Sds key exchange command block.

Test Box

25

This target is used by the Mastercom 250 test box. The data consist of one byte, the address of the test box. This message must be sent on every poll received by the test box. No response operation is defined.

Target: EFT Transactions

EFT transactions, messages that actually move funds back and forth between the game and players' accounts, will be sent in freeform messages. These freeform messages will have a session ID of 14 to indicate that they are to be routed to the EFT module. EFT freeform messages will have a type 14 command block that contains all the information necessary to approve an EFT transaction. This command block will be encrypted within a type 11.5, security command block—Encryption and Authentication

All EFT transactions will have an exception code of BA, and will receive a freeform (poll code sC) response as a transport ack. This freeform ack can either have application data in the data segment or it can have a zero length data segment.

This target defines messages used to transport EFT information to and from the system. The format of this command block is:

|    | Field                          | Description  |
|----|--------------------------------|--|
| 45 | Target ID                      | 14 - EFT Transaction                                   |
|    | Data Length<br>EFT Transaction | Length of the following data 1 byte message descriptor |
|    | Type<br>EFT Data               | Data associated with the particular                    |
| 50 |                                | transaction type.                                      |

**EFT Transaction Types:** 

| 55 | 1  | Withdrawal Request       |
|----|----|--------------------------|
|    | 2  | Withdrawal Authorization |
|    | 3  | Withdrawal Complete      |
|    | 4  | Withdrawal               |
|    |    | Acknowledgement          |
|    | 5  | Deposit Request          |
| .0 | 6  | Deposit Authorization    |
| 50 | 7  | Deposit                  |
|    | 8  | Deposit Acknowledgement  |
|    | 9  | Balance Request          |
|    | 10 | Balance Response         |
|    | 11 | System Enable EFT        |
|    | 12 | System Disable EFT       |
| 55 | 13 | Player Enable EFT        |
|    |    |                          |

10

127

#### Withdrawal Request

Sent by the GMU to the system. It initiates a withdrawal transaction.

| Field              | Length | Type | Description |
|--------------------|--------|------|-------------|
| Account Type       | 1      | BYTE |             |
| Amount Requested   | 4      | BCD  |             |
| Player Card Number | 5      | BCD  |             |
| PIN                | 2      | BCD  |             |

#### Account Type Table

| Account Type | Description        |
|--------------|--------------------|
| 1            | Promotional Offer. |
| 2            | Points Redemption  |
| 3            | Player Cash        |

Account type '1', promotional offer, is a special type. Offers are withdrawals for set amounts (determined by the EFS), and thus the GMU never prompts the player to select an amount.

#### Withdrawal Authorization

Sent by the system to the GMU in response to a withdrawal request. If the error code is zero then the GMU will attempt to transfer the Cashable and non-cashable values to the slot machine.

| Field              | Length | Type | Description |
|--------------------|--------|------|-------------|
| Non-Cashable       | 4      | BCD  |             |
| Cashable           | 4      | BCD  |             |
| Error Code         | 1      | BYTE |             |
| Player Card Number | 5      | BCD  |             |
| Player Flags       | 3      | BIN  |             |
| Display Message    | 1      | BYTE |             |
| Length             |        |      |             |
| Display Message    | 0-128  | TEXT |             |

#### Withdrawal Complete

Sent by the GMU to the system. Informs the system about the final outcome of the withdrawal transfer.

| Field                            | Length | Type        | Description                  |
|----------------------------------|--------|-------------|------------------------------|
| Non-Cashable                     | 4      | BCD         | Value transferred to<br>Game |
| Cashable                         | 4      | BCD         | Value transferred to<br>Game |
| Error Code<br>Player Card Number | 1<br>5 | BYTE<br>BCD |                              |

#### Withdrawal Acknowledgement

Sent by the System to the GMU. Informs the GMU that the system has received the withdrawal complete and the GMU is now free to release current transaction information. It also allows the system to update player characteristics (which may have changed as a result of the withdrawal) and display an update message to the player (such as new balance).

| Field              | Length | Type | Description |
|--------------------|--------|------|-------------|
| Player Card Number | 5      | BCD  |             |
| Player Flags       | 3      | BIN  |             |

### 128

#### -continued

| Field                     | Length | Type | Description |
|---------------------------|--------|------|-------------|
| Display Message<br>Length | 1      | BYTE |             |
| Display Message           | 0-128  | TEXT |             |

#### Deposit Request

The Non-Cashable or Cashable funds field should be filled with zeros if that fund type is not allowed for the player, (based on system and player characteristics flags). The PIN field should be filled with zeros if PIN is not required.

| Field              | Length | Type | Description |
|--------------------|--------|------|-------------|
| Non-Cashable       | 4      | BCD  |             |
| Cashable           | 4      | BCD  |             |
| Player Card Number | 5      | BCD  |             |
| PIN                | 2      | BCD  |             |

#### Deposit Authorization

This message from the system authorizes the GMU to remove credits form the game and send them to the Electronic Funds Server.

If the Error Code field is non-zero then the GMU will end the deposit transaction without removing credits from the game. Further, if the error code field is non-zero then no other messages will be sent to the Electronic Funds Server for this transaction. The error code value will be sent in the EFT Error Code field of the next EFT Meters exception.

|    | Field                     | Length | Type | Description   |
|----|---------------------------|--------|------|---|
|    | Error Code                | 1      | BYTE | 0 = Approved, >0<br>Cancel Deposit                  |
|    | Player Card Number        | 5      | BCD  | •   |
| 40 | Player Flags              | 3      | BIN  | Replace the current player flags with these values. |
|    | Display Message<br>Length | 1      | BYTE | 0 = no message.                                     |
| 45 | Display Message           | 0-128  | TEXT |   |

#### Deposi

The Non-Cashable and Cashable fields should be filled with zeros if there was an error getting credits from the game.

| Field                            | Length | Туре        | Description                           |
|----------------------------------|--------|-------------|---------------------------------------|
| Non-Cashable                     | 4      | BCD         | Value of credits<br>removed from Game |
| Cashable                         | 4      | BCD         | Value of credits removed from Game    |
| Error Code<br>Player Card Number | 1<br>5 | BYTE<br>BCD |                                       |

#### Deposit Acknowledgement

Sent by the System to the GMU. Informs the GMU that the system has received the deposit and the GMU is now free to release current transaction information. It also allows the system to update player characteristics (which may have changed as a result of the deposit) and display an update message to the player (such as new balance).

45

#### 130

| Field              | Length | Туре | Description |
|--------------------|--------|------|-------------|
| Player Card Number | 5      | BCD  |             |
| Player Flags       | 3      | BIN  |             |
| Display Message    | 1      | BYTE |             |
| Length             |        |      |             |
| Display Message    | 0-128  | TEXT |             |

#### Balance Request

| Field              | Length | Туре | Description |
|--------------------|--------|------|-------------|
| Player Card Number | 5      | BCD  |             |
| PIN                | 2      | BCD  |             |

#### Balance Response

| Field              | Length | Туре | Description |
|--------------------|--------|------|-------------|
| Player Card Number | 5      | BCD  |             |
| Player Flags       | 3      | BIN  |             |
| Display Message    | 1      | BYTE |             |
| Length             |        |      |             |
| Display Message    | 0-128  | TEXT |             |

#### System Enable EFT

The enable message will allow the system to turn on EFT at a game. This message will only turn on EFT if the GMU is otherwise approved for EFT. For instance, if upon GMU 30 initialization the SDS EFT Characteristics (Command Block 2.9) indicated that EFT was not allowed, then this message would be ignored. There is no data for this command block.

#### System Disable EFT

The disable message allows the system to temporarily turn  $\,^{35}$  off EFT at a game.

## Player Enable EFT

The player enable message will allow the system to turn on EFT while a player is at a game. Ignore this message if the current player card does not match the player card number in the message data.

| Field   | Length      | Туре               | Description |
|---|-------------|--------------------|-------------|
| Player Card Number<br>Player Flags<br>Display Message | 5<br>3<br>1 | BCD<br>BIN<br>BYTE |             |
| Length<br>Display Message                             | 0-128       | TEXT               |             |

### Special Error Code Handling

In most cases the Player Flags in an EFT block will replace the current player flags in the GMU. There are, however, exceptions to this rule for certain error codes. If error code field in an EFT block equals any of the below values then the GMU should ignore the player flags that came with that block.

| Error<br>Code<br>(decimal) | Meaning  | 60 |
|----------------------------|--|----|
| 32<br>131                  | No Communications with EFS<br>SDS can't authenticate EFS<br>message. | 65 |

#### Target ID 15: Accounting Meters

The accounting meter block is used by the GMU to inform the system of the current value of various meters. Each meter block will consist of a series of meters that all come from the same source. For instance, a message may contain two meter blocks; one for meters maintained by the GMU, and a second for game meters.

| 10 | Field                  | Size  | Format | Comment                                      |
|----|------------------------|-------|--------|--|
|    | Target ID              | 1     | Byte   | \$0F   |
|    | Meters Block<br>Length | 1     | Byte   |  |
|    | Meters Source ID       | 1     | Byte   | Identifies what device the meters came from. |
| 15 | Meter Data             | 1-250 |        | A series of meter blocks.<br>(See below)     |

#### Meter Source IDs

| Source<br>ID | Meter Source |  |
|--------------|--------------|--|
| 1<br>2       | GMU<br>Game  |  |

#### Meter Blocks

The meter block is used to send the current value of an accounting meter to the system. Since meter values can originate from sources other than the GMU they can have variable maximum sizes. One type of game may use 8 digit meters, another 10 digits, and yet another only 6 digits. The Meter Length field is used to inform the system of the maximum size (in BCD bytes) of the meter. The system uses this data to determine the meter rollover point.

The actual meter field is the current value of the meter. The field size is the size of the meter maximum, thus leading zeros should be used when filling this field.

| Field                     | Size                     | Format       | Comment  |
|---------------------------|--------------------------|--------------|--|
| Meter Tag<br>Meter Length | 1                        | Byte<br>Byte | \$01-\$FF The length in bytes required to hold the maximum value of the meter. This is also the length of the Meter field. |
| Meter Data                | Meter<br>Block<br>Length | BCD          | The current value of the meter. Filled with leading zeros.   |

#### Currently Defined Meters

| Tag<br>ID | Meter Name           | Source | Max Length in<br>Bytes |
|-----------|----------------------|--------|------------------------|
| 1         | Plays                | GMU    | 3                      |
| 2         | Bets                 | GMU    | 6                      |
| 3         | Wins                 | GMU    | 6                      |
| 4         | Coin Drop            | GMU    | 6                      |
| 5         | Coins Purchased      | GMU    | 6                      |
| 6         | Coins Collected      | GMU    | 6                      |
| 7         | \$1 bills            | GMU    | 3                      |
| 8         | \$5 bills            | GMU    | 3                      |
| 9         | \$10 bills           | GMU    | 3                      |
| 10        | \$20 bills           | GMU    | 3                      |
| 11        | \$50 bills           | GMU    | 3                      |
| 12        | \$100 bills          | GMU    | 3                      |
| 13        | Credits from coupons | GMU    | 6                      |
| 14        | Credits from bills   | GMU    | 6                      |

132

nued -continued

|           |                                  |        |                        | _  |           |   |             |                        |
|-----------|----------------------------------|--------|------------------------|----|-----------|---|-------------|------------------------|
| Tag<br>ID | Meter Name                       | Source | Max Length in<br>Bytes | _  | Tag<br>ID | Meter Name  | Source      | Max Length in<br>Bytes |
| 15        | EFT In Cashable                  | Game   | Dependant on<br>Game   | 5  | 26        | Ticket Out Count Non-<br>Cashable                                 | Game        | Dependant on<br>Game   |
| 16        | EFT Out Cashable                 | Game   | Dependant on<br>Game   |    | 27        | Hand Paid Jackpot   | Game        | Dependant on<br>Game   |
| 17        | EFT In Non-Cashable              | Game   | Dependant on<br>Game   |    | 28        | Cancelled Credit Hand Pay   | Game        | Dependant on<br>Game   |
| 18        | EFT Out Non-Cashable             | Game   | Dependant on<br>Game   | 10 | 29        | Hand Paid Progressive<br>Jackpot                                  | Game        | Dependant on<br>Game   |
| 19        | Ticket In Cashable               | Game   | Dependant on<br>Game   |    | 30        | Machine Paid Progressive<br>Wins                                  | Game<br>or  | 6                      |
| 20        | Ticket Out Cashable              | Game   | Dependant on<br>Game   |    | 31        | EFT In Cashable Promo   | GMU<br>Game | Dependant on           |
| 21        | Ticket In Non-Cashable           | Game   | Dependant on<br>Game   | 15 | 32        | EFT Out Cashable Promo  | Game        | Game<br>Dependant on   |
| 22        | Ticket Out Non-Cashable          | Game   | Dependant on<br>Game   |    |           |   |             | Game                   |
| 23        | Ticket In Count Cashable         | Game   | Dependant on<br>Game   |    | GMI       | J Event Messages  |             |                        |
| 24        | Ticket Out Count Cashable        | Game   | Dependant on<br>Game   | 20 | The       | following chart lists whi   |             |                        |
| 25        | Ticket In Count Non-<br>Cashable | Game   | Dependant on<br>Game   |    |           | be sent to the system for e<br>Sets' table below for the li<br>y. |             |                        |

| XC | Event<br>Name                   | Standard<br>Data | Game<br>Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
|----|---------------------------------|------------------|----------------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
|    | Null                            | X                |                      |                |                |             | Spc            | Spc            | Spc              | Spc           | Spc     |
| 2  | Event<br>Too                    | X                |                      |                |                |             | X              | X              |                  |               |         |
|    | Many<br>Bad<br>PINs             |                  |                      |                |                |             |                |                |                  |               |         |
| 3  | Acceptor<br>Hopper<br>Jam       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 4  | Service<br>Request              | X                |                      |                |                |             |                |                |                  |               |         |
| 5  |                                 | X                |                      |                |                |             | X              |                |                  |               |         |
| 7  | DMK<br>Preemptive<br>Fill       | X                |                      |                |                |             |                |                |                  |               |         |
| 8  | Hot<br>Player                   | X                |                      |                |                |             | X              | X              |                  |               |         |
| 9  | Diverter<br>Malfunction         | X                |                      |                |                |             | X              | X              |                  |               |         |
| 10 | Hand-<br>Paid<br>Jackpot        | X                |                      |                |                |             | X              | X              |                  |               |         |
| 11 | Link<br>Progressive<br>Report   | X                |                      |                |                |             | X              | X              |                  |               |         |
| 12 | Abandoned card                  | X                |                      |                |                |             | X              | X              |                  | X             |         |
| 13 | Illegal<br>Card<br>removal      | X                |                      |                |                |             | X              | X              |                  |               |         |
| 14 | Bad<br>mag<br>card<br>reader    | Х                |                      |                |                |             | X              | X              |                  |               |         |
| 15 | Acceptor<br>large<br>buy-<br>in | X                |                      |                |                |             | X              | X              |                  |               |         |
| 16 | Acceptor can't vend             | X                |                      |                |                |             | X              | X              |                  |               |         |

| ХС | Event<br>Name                         | Standard<br>Data | Game<br>Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
|----|---------------------------------------|------------------|----------------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
| 17 | GMU                                   | X                |                      |                |                |             | X              | X              |                  |               |         |
| 18 | update<br>request<br>Acceptor<br>bad  | X                |                      |                |                |             | X              | X              |                  |               |         |
| 19 | pay<br>Acceptor<br>runaway            | X                |                      |                |                |             | X              | X              |                  |               |         |
| 20 | hopper<br>Bonus<br>point              | X                |                      |                |                |             | X              | X              |                  |               |         |
| 21 | rollover<br>Change                    | X                |                      |                |                |             |                |                |                  |               |         |
| 22 | Request<br>Beverage                   | X                |                      |                |                |             |                |                |                  |               |         |
| 23 | Request<br>Game<br>reserved           | X                |                      |                |                |             | X              | X              |                  |               |         |
| 24 | 911<br>Emergency                      | X                |                      |                |                |             |                |                |                  |               |         |
| 25 | Request<br>to<br>change               | X                |                      |                |                |             | X              | X              |                  |               |         |
| 26 | GMU<br>Coupon<br>Redeemed             | X                |                      |                | X              |             |                |                |                  |               |         |
| 27 | Transfer<br>From<br>Game              |                  |                      |                |                |             |                |                |                  |               |         |
| 28 | Coupon<br>Request                     | X                |                      |                | X              |             |                |                |                  |               |         |
| 29 | DMK<br>Fill                           | X                |                      |                |                |             | X              | X              |                  |               |         |
| 30 | Request<br>Jackpot<br>to<br>Credit    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 31 | Meter<br>Bad<br>Machine<br>Pay        | X                |                      |                |                |             | X              | X              | X                |               |         |
| 32 | amt<br>Game<br>MPU                    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 33 | removed<br>Game<br>MPU<br>reinstalled | X                |                      |                |                |             | X              | X              | X                |               |         |
| 35 | Auxfill<br>door<br>opened             | X                |                      |                |                |             | X              | X              |                  |               |         |
| 36 | Auxfill<br>door                       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 37 | closed<br>Employee<br>Card<br>in      | X                |                      |                |                |             | X              | X              | X                | X             |         |
| 38 | Employee<br>card<br>out               | X                |                      |                |                |             | X              | X              | X                | X             |         |
| 39 | Player<br>Card<br>In                  | X                |                      |                |                |             | X              | X              |                  | X             |         |
| 40 | (220+)<br>Game<br>MPU                 | X                |                      |                |                |             |                |                | X                | X             |         |
| 41 | reset<br>Bad<br>Spin                  | X                |                      |                |                |             | X              |                |                  |               |         |
| 42 | Bad<br>Spin                           | X                |                      |                |                |             | X              |                |                  |               |         |
| 43 | Bad<br>Spin                           | X                |                      |                |                |             | X              |                |                  |               |         |
| 44 |                                       | X                |                      |                |                |             | X              |                |                  |               |         |

|          |                        |                  | Game         |                |                |             |                |                |                  |               |         |
|----------|------------------------|------------------|--------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
| XC       | Event<br>Name          | Standard<br>Data | Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
| 45       | Bad                    | X                |              |                |                |             | X              |                |                  |               |         |
| 46       | Spin<br>Back<br>in     | X                |              |                |                |             | X              | X              |                  |               |         |
|          | play                   |                  |              |                |                |             |                |                |                  |               |         |
| 47       | Reset<br>during        | X                |              |                |                |             | X              | X              |                  |               |         |
|          | payout                 |                  |              |                |                |             |                |                |                  |               |         |
| 48       | Extra<br>coins         | X                |              |                |                |             | X              | X              |                  |               |         |
|          | paid                   |                  |              |                |                |             |                |                |                  |               |         |
| 49       | out<br>Run             | X                |              |                |                |             | X              | X              |                  |               |         |
| 72       | away                   | Λ                |              |                |                |             | 24             | 21             |                  |               |         |
| 50       | hopper<br>No           | X                |              |                |                |             | X              | X              |                  |               |         |
| 50       | data                   | Λ                |              |                |                |             | 21             | 24             |                  |               |         |
|          | on<br>mag              |                  |              |                |                |             |                |                |                  |               |         |
|          | card                   |                  |              |                |                |             |                |                |                  |               |         |
| 52       | Jackpot<br>Reset       | X                |              |                |                |             |                |                |                  |               | X       |
| 54       | Coin                   | X                |              |                |                |             | X              |                |                  |               |         |
|          | out<br>jam             |                  |              |                |                |             |                |                |                  |               |         |
| 55       | GMU                    | X                |              |                |                |             | X              | X              |                  |               |         |
| 56       | malfunction<br>GMU     | X                |              |                |                |             | X              | X              |                  |               |         |
|          | power                  |                  |              |                |                |             |                |                |                  |               |         |
| 57       | up<br>Win              | X                |              |                |                |             | X              | X              |                  |               |         |
|          | with<br>no             |                  |              |                |                |             |                |                |                  |               |         |
|          | handle                 |                  |              |                |                |             |                |                |                  |               |         |
| 58       | pull<br>Win            | X                |              |                |                |             | X              | X              |                  |               |         |
|          | with                   |                  |              |                |                |             |                |                |                  |               |         |
|          | no<br>coin             |                  |              |                |                |             |                |                |                  |               |         |
| 59       | in<br>Hopper           | X                |              |                |                |             | X              | X              |                  |               |         |
|          | can't                  | Α.               |              |                |                |             | 21             | 71             |                  |               |         |
| 60       | pay<br>Forced          | X                |              |                |                |             | X              | X              | X                | X             | X       |
|          | periodic               |                  |              |                |                |             |                |                |                  |               |         |
| 61<br>62 | Periodic<br>Blackout   | X<br>X           |              |                |                |             | X<br>X         | X<br>X         |                  |               | X       |
| 63       | Machine                | X                |              |                |                |             | X              | X              |                  |               |         |
|          | paid<br>jackpot        |                  |              |                |                |             |                |                |                  |               |         |
| 64       | Slot                   | X                |              |                |                |             | X              | X              |                  |               |         |
|          | machine<br>tilt        |                  |              |                |                |             |                |                |                  |               |         |
| 65       | Game<br>Activity       | X                |              |                |                |             | X              |                |                  |               |         |
|          | report                 |                  |              |                |                |             |                |                |                  |               |         |
| 66       | Acceptor removed       | X                |              |                |                |             | X              | X              |                  |               |         |
| 67       | Bill<br>cassette       | X                |              |                |                |             | X              | X              |                  |               |         |
|          | is                     |                  |              |                |                |             |                |                |                  |               |         |
| 68       | full<br>Bill           | X                |              |                |                |             | X              | v              |                  |               |         |
| 08       | cassette               | Λ                |              |                |                |             | Λ              | X              |                  |               |         |
|          | is                     |                  |              |                |                |             |                |                |                  |               |         |
| 69       | jammed<br>Acceptor     | X                |              |                |                |             | X              | X              |                  |               |         |
|          | not                    |                  |              |                |                |             |                |                |                  |               |         |
| 70       | responding<br>Acceptor | X                |              |                |                |             | X              | X              |                  |               |         |
|          | functioning            |                  |              |                |                |             |                |                |                  |               |         |
| 71       | again<br>Slot          | X                |              |                |                |             | X              | X              | X                | X             |         |
|          | door                   |                  |              |                |                |             |                |                |                  |               |         |
|          | opened                 |                  |              |                |                |             |                |                |                  |               |         |

| XC | Event<br>Name                    | Standard<br>Data | Game<br>Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
|----|----------------------------------|------------------|----------------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
| 72 | Slot<br>door                     | X                |                      |                |                |             | X              | X              | X                |               | X       |
| 73 | closed<br>Drop<br>Door           | X                |                      |                |                |             | X              |                |                  |               |         |
| 74 | opened<br>Drop<br>door<br>closed | X                |                      |                |                |             | X              |                |                  |               |         |
| 75 | Acceptor<br>door<br>opened       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 76 | Acceptor<br>door<br>closed       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 77 | Player<br>Card<br>in             | X                |                      |                |                |             | X              | X              |                  | X             |         |
| 78 | Player<br>card<br>removed        | X                |                      |                |                |             | X              | X              |                  |               |         |
| 79 | Bill<br>cassette<br>removed      | X                |                      |                |                |             |                | X              | X                |               |         |
| 80 | Unknown<br>tilt<br>code          | X                |                      |                |                |             | X              | X              |                  |               |         |
| 81 | Reel<br>spin<br>after<br>index   | X                |                      |                |                |             | X              |                |                  |               |         |
| 82 | Reel<br>spin<br>after            | X                |                      |                |                |             | X              |                |                  |               |         |
| 83 | index<br>Reel<br>spin<br>after   | X                |                      |                |                |             | X              |                |                  |               |         |
| 84 | index<br>Reel<br>spin<br>after   | X                |                      |                |                |             | X              |                |                  |               |         |
| 85 | index<br>Reel<br>spin<br>after   | X                |                      |                |                |             | X              |                |                  |               |         |
| 86 | index<br>Too<br>many<br>bills    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 87 | rejected Acceptor malfunction    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 88 | Can't<br>read<br>mag             | X                |                      |                |                |             | X              | X              |                  |               |         |
| 89 | card<br>Bill<br>vend<br>to       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 90 | credit<br>meter<br>Coin<br>in    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 91 | jam<br>Coin<br>drop<br>switch    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 92 | stuck<br>Acceptor<br>jammed      | X                |                      |                |                |             | X              | X              |                  |               |         |
| 93 | Too<br>many<br>coins<br>in       | X                |                      |                |                |             | X              |                |                  |               |         |

| ХС  | Event<br>Name                              | Standard<br>Data | Game<br>Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
|-----|--|------------------|----------------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
|     | Game<br>meters                             | X                |                      |                |                |             | X              | X              | X                | X             | -       |
| 95  | cleared<br>Game<br>memory                  | X                |                      |                |                |             | X              | X              | X                | X             |         |
| 96  | malfunction<br>Bill<br>cassette            | X                |                      |                |                |             |                | X              | X                |               |         |
| 97  | door<br>opened<br>Bill<br>cassette<br>door | X                |                      |                |                |             |                | X              | X                |               |         |
| 98  | closed<br>GMU<br>meters                    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 160 | reset<br>Patron<br>request<br>for          | X                |                      |                |                |             |                |                |                  |               |         |
| 161 | info<br>Unknown<br>table<br>index          | X                |                      |                |                |             | X              | X              |                  |               |         |
| 162 | Employee<br>key                            | X                |                      |                |                |             |                |                |                  |               |         |
| 163 | sequence<br>Display<br>fault               | X                |                      |                |                |             | X              | X              |                  |               |         |
| 164 | Touch<br>Screen                            | X                |                      |                |                |             | X              | X              |                  |               |         |
| 165 | Low<br>battery                             | X                |                      |                |                |             | X              | X              |                  |               |         |
| 166 | condition<br>Game<br>EPROM<br>Signature    | X                |                      |                |                |             | X              | X              |                  |               |         |
| 167 | Fault<br>MPU<br>compartment                | X                |                      |                |                |             | X              | x              |                  |               |         |
| 168 | opened<br>MPU<br>compartment<br>closed     | X                |                      |                |                |             | X              | X              |                  |               |         |
| 169 | GMU<br>Compartment<br>opened               | X                |                      |                |                |             | X              | X              |                  |               |         |
| 170 | GMU<br>compartment<br>closed               | X                |                      |                |                |             | X              | X              |                  |               |         |
| 171 | Game<br>power<br>up                        | X                |                      |                |                |             | X              | X              | X                | X             |         |
| 172 | Game<br>Comm<br>lost                       | X                |                      |                |                |             | X              | X              |                  |               |         |
| 173 | Game<br>comm<br>restored                   | X                | X                    |                |                |             | X              | X              |                  |               | X       |
| 174 | New<br>Game<br>Selected                    | X                | X                    |                |                |             | X              |                |                  |               |         |
| 176 | Slot<br>Printer<br>Fault                   | X                |                      | X              |                |             |                |                | X                |               |         |
| 177 | Cash<br>out<br>Request                     | X                |                      |                |                |             | X              | X              |                  |               |         |
| 178 | Start Cardless play                        | X                |                      |                |                |             | X              | X              | X                |               |         |
| 179 | End<br>cardless<br>play                    | X                |                      |                |                |             | X              | X              | X                |               |         |

#### -continued

| ХС   | Event<br>Name          | Standard<br>Data | Game<br>Info<br>Data | Ticket<br>Data | Coupon<br>Data | EFT<br>Data | Coin<br>Meters | Bill<br>Meters | Ticket<br>Meters | EFT<br>Meters | Jackpot |
|------|------------------------|------------------|----------------------|----------------|----------------|-------------|----------------|----------------|------------------|---------------|---------|
| 180  | Clear                  | X                |                      |                |                |             |                |                |                  |               |         |
| 100  | player                 | 71               |                      |                |                |             |                |                |                  |               |         |
|      | request                |                  |                      |                |                |             |                |                |                  |               |         |
| 181  | Qualifying             | X                |                      |                |                |             | X              |                |                  |               |         |
|      | play<br>achieved       |                  |                      |                |                |             |                |                |                  |               |         |
| 182  | GMU                    | X                |                      |                |                |             | X              | X              |                  |               |         |
|      | Intrepidized           |                  |                      |                |                |             |                |                |                  |               |         |
| 183  | Free                   | _                |                      | _              | _              | _           | _              | _              | _                | _             | _       |
|      | form                   |                  |                      |                |                |             |                |                |                  |               |         |
| 184  | Response<br>Free       |                  |                      |                |                |             |                |                |                  |               |         |
| 10-  | form                   | _                |                      | _              | _              |             | _              | _              | _                | _             |         |
|      | transport              |                  |                      |                |                |             |                |                |                  |               |         |
|      | NAK                    |                  |                      |                |                |             |                |                |                  |               |         |
| 185  | GMU                    | _                |                      | _              | _              | _           | _              | _              | _                | _             | _       |
|      | Initiated<br>Free      |                  |                      |                |                |             |                |                |                  |               |         |
|      | form                   |                  |                      |                |                |             |                |                |                  |               |         |
|      | Message.               |                  |                      |                |                |             |                |                |                  |               |         |
|      | (no                    |                  |                      |                |                |             |                |                |                  |               |         |
|      | response)              |                  |                      |                |                |             |                |                |                  |               |         |
| 186  | Acceptor<br>SW         | X                |                      |                |                |             |                | X              |                  |               |         |
|      | Changed                |                  |                      |                |                |             |                |                |                  |               |         |
| 187  | Acceptor               | X                |                      |                |                |             |                | X              |                  |               |         |
|      | SW                     |                  |                      |                |                |             |                |                |                  |               |         |
|      | Change                 |                  |                      |                |                |             |                |                |                  |               |         |
| 100  | Acknowledged<br>GMU    |                  |                      |                |                |             |                |                |                  |               |         |
| 100  | Initiated              | _                |                      | _              | _              | _           | _              | _              |                  |               | _       |
|      | Free                   |                  |                      |                |                |             |                |                |                  |               |         |
|      | form                   |                  |                      |                |                |             |                |                |                  |               |         |
|      | Message.               |                  |                      |                |                |             |                |                |                  |               |         |
|      | (variable response)    |                  |                      |                |                |             |                |                |                  |               |         |
| 189  | Ticket                 | X                |                      | X              |                |             |                |                | X                |               |         |
| -03  | Print                  |                  |                      |                |                |             |                |                |                  |               |         |
| 190  | Ticket                 | X                |                      | X              |                |             |                |                | X                |               |         |
| 102  | Redeemed               | 37               |                      |                |                | 37          |                |                |                  | 37            |         |
| 193  | Cashless<br>Withdrawal | X                |                      |                |                | X           |                |                |                  | X             |         |
| 195  | Cashless               | X                |                      |                |                | X           |                |                |                  | X             |         |
| 1,,, | Collect                | ••               |                      |                |                |             |                |                |                  |               |         |
| 196  | Cashless               |                  |                      |                |                |             |                |                |                  |               |         |
|      | Balance                | 37               |                      |                |                |             | 37             | 37             |                  |               |         |
|      | Default                | X                |                      |                |                |             | X              | X              |                  |               |         |

#### Meter Sets -continued

| Meter Set | Meter Ids | Meter Names             | <del></del> | Meter Set                | Meter Ids        | Meter Names                       |
|-----------|-----------|-------------------------|-------------|--------------------------|------------------|-----------------------------------|
| Meter Set | Meter ids | Meter Names             | 50          |                          | 18               | Non-Cashable EFT Out              |
| Coin      | 1         | Plays                   | 30          |                          | 31               | EFT In Cashable Promo             |
|           | 2         | Bets                    |             |                          | 32               | EFT Out Cashable Promo            |
|           | 3         | Wins (Machine Pay       |             | Tickets                  | 19               | Cashable Ticket In                |
|           |           | Paytable)               |             |                          | 20               | Cashable Ticket Out               |
|           | 4         | Coin Drop               |             |                          | 21               | Non-Cashable Ticket In            |
|           | 5         | Coins Purchased         |             |                          | 22               | Non-Cashable Ticket Out           |
|           | 6         | Coins collected         | 55          |                          | 23               | Cashable Ticket In Cnt            |
|           | 30        | Machine Pay Progressive |             |                          | 24               | Cashable Ticket Out Cnt           |
|           |           | Wins                    |             |                          | 25               | Non-Cashable Ticket In Cnt        |
| Bill      | 7         | \$1                     |             |                          | 26               | Non-Cashable Ticket Out           |
|           | 8         | \$5                     |             |                          |                  | Cnt                               |
|           | 9         | \$10                    |             | Jackpot                  | 27               | Hand Paid Jackpot                 |
|           | 10        | \$20                    | 60          |                          | 28               | Cancelled Credit Hand Pay         |
|           | 11        | \$50                    |             |                          | 29               | Hand Paid Progressive             |
|           | 12        | \$100                   |             |                          |                  | Jackpot                           |
|           | 13        | Coupon Credits          |             |                          |                  |                                   |
|           | 14        | Bill Credits            |             | m 4 m                    |                  |                                   |
| EFT       | 15        | Cashable EFT In         |             | Ticket Exce <sub>l</sub> | ption Codes      |                                   |
|           | 16        | Cashable EFT Out        | 65          | Ticket meter             | s will be sent : | after each ticket transaction. Th |
|           | 17        | Non-Cashable EFT In     |             | •                        |                  | e to go with each message for     |

45

142

logging and reporting purposes. For this reason 2 new excep-

tion codes have been defined that will be used in the exception code field of the standard GMU Event block.

Because of the larger size of meters and the increase in the number of possible meters sent, it is possible for the data of a meter message to exceed the maximum size of single free-form data segment. Since we can not currently support multiple segment messages we need a method to connect all the data in more than one message. Sending a second message with the same exception code is problematic because the system will interpret it as a second event, for instance a second jackpot, or a second player card in (without a corresponding card out), etc. To avoid this we will use a new exception code: the null exception. The null exception signifies that the message is not an event in itself, but simply the continuation of a previous message. The null exception will have the following characteristics:

The standard GMU Event block will be a duplicate of the previous message, except for the exception code field, which will be the null exception code.

The Transaction  $\overrightarrow{ID}$  of the freeform message header will be  $^2$  the same as the previous message.

New Exception Codes

| Exception<br>Code | Exception<br>Name                        | Comment  |
|-------------------|--|--|
| 1<br>189<br>190   | Null<br>Ticket Print<br>Ticket<br>Redeem | Continued data from previous message<br>A ticket print operation has completed.<br>A ticket redemption operation has<br>completed. |

Target ID 16: GMU Event

The GMU Event block is a set of data describing the status and condition of the GMU, game, and/or attached devices at the time of a particular event. Most events that require notification of the system will contain one or more Event blocks.

GMU Event Block

| Field             | Size  | Format | Comment                           |
|-------------------|-------|--------|-----------------------------------|
| Target ID         | 1     | Byte   | \$10                              |
| Status Block      | 1     | Byte   |                                   |
| Length            |       | •      |                                   |
| Event Data Set ID | 1     | Byte   | Identifies the set of data in the |
|                   |       |        | Event Data section. (See table    |
|                   |       |        | below).                           |
| Event Data        | 1-250 |        | A set of data fields.             |

#### **Event Data Sets**

| Event<br>Data Set<br>ID | Event Set Name         |
|-------------------------|------------------------|
| 1                       | Standard Event<br>Data |

144

#### -continued

| Event<br>Data Set<br>ID | Event Set Name                      |
|-------------------------|-------------------------------------|
| 2                       | Ticket Event Data                   |
| 3<br>4                  | EFT Event Data<br>Coupon Event Data |

#### Standard Event Data

The standard event data set will be sent with most event messages, (i.e. exceptions).

| 5 Field                        | Start | Size | Format | Comment                         |
|--------------------------------|-------|------|--------|---------------------------------|
| Exception Code                 | 1     | 1    | Byte   |                                 |
| Jackpot ID                     | 2     | 1    | Byte   |                                 |
| Employee Card                  | 3     | 2    | BCD    |                                 |
| Last Bet                       | 5     | 2    | BCD    | Formally called<br>Multiplier   |
| Door Status and Message        | 7     | 1    | Byte   | Bit mapped data<br>& sequence # |
| Sequence number                |       |      |        | •                               |
| Option byte                    | 8     | 1    | Byte   |                                 |
| Jackpot amount                 | 9     | 6    | BCD    | In Pennies                      |
| Player Card                    | 14    | 5    | BCD    |                                 |
| Bonus Points                   | 20    | 2    | BCD    |                                 |
| Last Bill entered in validator | 22    | 1    | Byte   |                                 |
| SMI Code                       | 23    | 8    | String |                                 |
| Game Denomination              | 31    | 4    | BCD    |                                 |
| Casino ID                      | 35    | 3    | String |                                 |
| Bonus Countdown                | 38    | 2    | BCD    |                                 |
| ) Hopper Count                 | 40    | 2    | BCD    |                                 |

#### Ticket Event Data

Ticket Event data is data specific to conditions after a ticket transaction.

|   | Field                          | Start   | Size   | Format      | Comment   |
|---|--------------------------------|---------|--------|-------------|---|
|   | Ticket ID<br>Ticket Error Code | 1<br>10 | 9<br>1 | BCD<br>Byte | Ticket Bar Code Number<br>The Status code from the last |
| О |                                |         |        |             | ticket transaction.                                     |

#### EFT Event Data

40

50

EFT Event data is data specific to conditions before or after an EFT transaction.

| Field                 | Start | Size | Format | Comment  |
|-----------------------|-------|------|--------|--|
| EFT Transaction<br>ID | 1     | 1    | Byte   | Transaction ID from the previous EFT transactions. |
| EFT Error Code        | 2     | 1    | Byte   | Error Code from the previous EFT transaction.      |

#### Coupon Event Data

The coupon event block replaces the F6 type (coupon) message. It contains the event data specific to redeeming a coupon.

| Field                     | Start | Size | Format | Comment                          |
|---------------------------|-------|------|--------|----------------------------------|
| Cashless Transaction Type | 1     | 1    | Byte   | \$80 for coupon transaction.     |
| Credit Meter Limit/Credit | 2     | 2    | BCD    | Game credit max on redeem        |
| Amount                    |       |      |        | request.                         |
|                           |       |      |        | Credits added to credit meter on |
|                           |       |      |        | redemption complete.             |

| Field                                 | Start | Size | Format | Comment  |
|---------------------------------------|-------|------|--------|--|
| Credit Meter Balance                  | 4     | 2    | BCD    | Value of the game credit meter.  |
| Coupon Serial Number                  | 6     | 8    | BCD    | The coupon ID number. Bar Code number minus Casino ID.                     |
| Game Denom Code/<br>Completion Status | 14    | 1    | Byte   | Game denomination on redeem request. Result code on a redemption complete. |

Target: SystemPrinter

This target allows the caller to perform generic printing to a GMU controlled printer. The parameter data for this target uses its own sub-format as follows:

|  | gument |
|--|--------|
|--|--------|

The following lists currently supported actions (see end of document for type abbreviation details).

Printstring (Action ID=1) System to GMU

This action uses the following argument structure.

Argument structure TEXT, string to print (Data sent in <sup>25</sup> printers native language)

Response Operation

No application ACK is sent from this target.

PrintstringEnd (Action ID=2) System to GMU

This action uses the following argument structure.

Argument structure No argument structure for this action ID.

Response Operation

Application ACK after determination of print job result  $_{35}$  with \$11, 2, 2,\$result byte in data field.

| Result Byte | Description          |
|-------------|----------------------|
| 0x11        | Print job successful |
| 0x12        | Paper out            |
| 0x13        | undefined            |
| 0x14        | Paper low            |
| 0x15        | Printer/paper jam    |

SetPrintCompValue (Action ID=3) System to GMU This action uses the following argument structure:

Argument structure Up to 5 separate fields: Value1, Value2, Value3, Value4, Value5. Each field consisting of 4 BCD digits. Example: \$1000=(1000), \$100=(0100), 50 \$10=(0010) \$1=(0001)

Value fields are limited to dollar amounts only at this time, max value=9999.

Response Operation

No application ACK is sent from this target.

CompVoucherRequest (Action ID=4) GMU to System This action uses the following argument structure:

Argument structure 3 fields: Player ID, PIN Number, Voucher Amount

Player ID, 10 digit (5 BCD bytes) of player card number PIN Number, 4 BCD digits. This is followed by Voucher amount.

Voucher amount, from the SetPrintCompValue message. The field consisting of 4 BCD digits. Example: \$1000=(1000), \$100=(0100), \$10=(0010) \$1=(0001)

Value fields are limited to dollar amounts only at this time, max value=9999.

Response Operation

No application ACK is sent from this target.

PrintjobCancel (Action ID=5) System to GMU

This action uses the following argument structure. The system may send this command at any time to cancel any/all print strings previously sent.

Argument structure No argument structure for this action ID.

20 Response Operation

Application ACK if requested by sender.

Target: GMU Authentication

| Acti         | ion ID      | Argument              |
|--------------|-------------|-----------------------|
| GMU Authenti | cation Acti | on IDs:               |
| 1            | In          | itiate Authentication |
| 2            | A           | uthentication Results |
| 3            | A           | uthentication Query   |
| 4            | Α           | uthentication Status  |

Initiate Authentication

This is sent by the system to ask the GMU to calculate and report on its authentication value. The GMU will respond with an Authentication Results block as soon as it knows its authentication value. The argument for this block consists of a 4 byte seed in hex. The seed is used by the GMU when calculating its authentication value. This way every request can create a unique authentication result:

\$12,5,1, 4 bytes of seed in hex

**Authentication Results** 

The authentication results block is used by the GMU to send its most recently calculated authentication value to the system. The argument data for this block consists of a 4 byte CRC(32) authentication result (in hex):

\$12,5,2, 4 bytes of CRC in hex

Authentication Query

The authentication query allows the system to ask for the last completed authentication results that the GMU calculated. It is distinct from the Initiate authentication in that this does not require the GMU to recalculate the CRC. There is no argument with this block.

\$12, 1, 3

Authentication Status

Authentication Status allows the system to ask the current status of the last authentication request. The argument for this block consists of a single status byte.

Authentication Calculation Status Values:

|    | Value  | Status                   |  |
|----|--------|--------------------------|--|
| 55 | 0<br>1 | Done<br>Still Processing |  |

| Value | Status                         |
|-------|--------------------------------|
| 2 3   | Not Started<br>Boot CRC Failed |

Target ID 19: System to EPI Display Messages 19191 Target ID 19: System to EPI Display Message

The System to EPI Display freeform message is used to send messages from the system to the EPI display on the game. These message can be player information, sports/weather, bonus points, ticket/coupon error messages, EFT messages or any other type of message the system programmer should decide to send.

| Field                                 | Size Format | Comment                                     |
|---------------------------------------|-------------|---|
| Target ID                             | 1 Byte      | \$13 (decimal nineteen)                     |
| Message Length                        | 1 Byte      | 1-220 (number of bytes in freeform message) |
| Message<br>Type/Target<br>Application | 1 Byte      | 0-255 partially defined. (0xF2, 0xF3)       |
| Message                               | 1-218 Text  | See below.                                  |

#### 148

The message type/target application can include F2 Promo message types, F3 Sports message types, and Ticket/Coupon error messages. This can be added to in the future and should be compatible with existing messages also.

5 Typical 0xF2 message:

0x13, 0x07, 0xF2, 0x01, 0x04, 'T', 'e', 's', 't'

0x13—Target ID, 0x07—length of freeform command, 0xF2—sub target (promo message), 0x01—Alternate/Replace Code (0x01=Replace), 0x04—Actual text message length, Message is "Test".

Defined message types are in table X

Target ID 20: Game Info

The Game info block is used to send information about the slot, its configuration, and its current status. The Game Info block is made of 1 or more Game Info Tag blocks, each of which contains a single piece of game data.

Tag ID Block

| 20 | Field                | Size       | Format   |
|----|----------------------|------------|--|
| -0 | Tag ID               | 1          | Byte. A number identifying the game information. |
|    | Size<br>Game<br>Info | 1<br>0-127 | Byte. The length of the info data.<br>Varies.    |

#### Game Info Tags

| Game<br>Info Tag<br>ID | Field                    | Size | Format | Comment   |
|------------------------|--------------------------|------|--------|---|
| 1                      | PaytableID               | 0-11 | Text   | The Current Game's Pay table identifier                   |
| 2                      | CurGamePayBack           | 1-3  | BCD    | The Current Game's Payback percentage (max 6 digits).     |
| 3                      | CurGameDenom             | 1-4  | BCD    | The Current Game's Denomination (max 8 digits) In pennies |
| 4                      | CurGameName              | 0-20 | Text   | The Name of the Current Game                              |
| 5                      | Game Protocol<br>Version | 6    | Text   | The SAS version number.                                   |

The message is variable depending on the Message type and Target Application. Defined target applications are as follows:

Target Application 1:

Typical message

0x13, 0x07, 0x01, 0x00, 0x04, 'T', 'e', 's', 't'

0x13—Target ID, 0x07—length of freeform command, 0x01—Target Application (01=Ticket Print), 0x00—Message Action (0x00=Solid), 0x04—Actual text message 50 length, Message is "Test".

Target Application 2:

Typical message

0x13, 0x07, 0x02, 0x01, 0x04, 'T', 'e', 's', 't'

0x13—Target ID, 0x07—length of freeform command, 0x02—Target Application (02=Ticket Redeem),

0x01—Message Action (0x01=Blink), 0x04—Actual text message length. Message is "Test".

Target Application 3:

Typical message

0x13, 0x1, 0x03, 0x02, 0x019, 'T', 'h', 'i', 's', '', 'i', 's', '', 'T', 'e', 's', 't', ', 'o', 'f', ', 't', 'h', 'e', ', 'G', 'M', 'U'

0x13—Target ID, 0x1C—length of freeform command, 0x03—Target Application (03=Ticket Error),

0x02—Message Action (0x02=Scroll), 0x19—Actual text message length, Message is "This is a Test of the GMU"

The CurGamePayBack is sent as 100ths of a percent. So a payback of 97.35% would could be sent as 9735 (or 009735). A payback greater than 100% is possible—so 010200 would be a payback of 102%.

Target ID 126: Debug Functions

General:

The Debug Functions are used by the GMU to inform the system various debug information. The meter sub block provides for expansion capabilities. When the sub block is 0, the actual meters need not be sent.

| 55 | Field           | Size  | Format | Comment                   |
|----|-----------------|-------|--------|---------------------------|
|    | Target ID       | 1     | Byte   | \$FE                      |
|    | Debug Block     | 1     | Byte   |                           |
| 60 | Length          |       |        |                           |
|    | Debug Data Type | 1     | Byte   | Identifies type of debug  |
|    |                 |       |        | data                      |
|    | Debug Data      | 1-200 |        | A series of meter blocks. |
| 65 |                 |       |        | (See below)               |
|    |                 |       |        |                           |

Debug Type IDs

# ${150} \\$ Currently Defined Meters

|   |                                       |              |                         |           | _                                   |                     |   |
|---|---------------------------------------|--------------|-------------------------|-----------|-------------------------------------|---------------------|---|
| Sub   |                                       |              | _                       |           |                                     | Tag                 | Motor Nama  |
| Block<br>ID   |                                       | Debu<br>Comr | g Data or               |           | 5                                   | ID                  | Meter Name  |
|   |                                       | Com          | nand                    |           |                                     | 1                   | GmCmDn Game Comm Downs  |
| 0   |                                       | Debu         | g Meters                |           |                                     | 2 3                 | GmSeq Game Sequence Errors GmCksm Game Checksum Errors                                    |
|   |                                       | cleare       | d                       |           |                                     | 4                   | LnDwns Line Down Count  |
| 1   |                                       | Debu         | g Meters                |           |                                     | 5                   | NtCksm Net Checksum Errors  |
| 2   |                                       | List o       | f Recent                |           | 10                                  | 6                   | NtRpol Net Repolls  |
|   |                                       | Event        | S                       |           |                                     | 7                   | NtMxRp Net Max Repoll Errors  |
| 3   |                                       | Debu         | g Text String           |           |                                     | 8                   | NtTQOv Net Transmit Queue Overflows   |
| 4-255   |                                       | Not Y        | et Defined              |           |                                     | 9                   | Resets GMU Resets   |
|   |                                       |              |                         |           |                                     | 10                  | Watdog GMU Watchdogs  |
|   |                                       |              |                         |           | 15                                  | 11                  | Povrld GMU stuck in EPI interupt  |
| System to GM  | IU:                                   |              |                         |           |                                     | 12                  | MtrG2 If General meters were bad and were<br>zeroed                                       |
| The system m  | av ream                               | est the G    | MU to send debug        | data by   |                                     | 13                  | MtrA1 meters bad and zeroed not at power up   |
| -   | -                                     |              | _                       | -         |                                     | 14                  | NRPdFl pwr up Mtrs bad write fail at power  |
| -   | m mess                                | age with     | the following App       | ncanon    |                                     | 1.                  | down?   |
| Target:   |                                       |              |                         |           | 20                                  | 15                  | MxEQSz Maximum # of Event queue   |
|   |                                       |              |                         |           | 20                                  |                     | messages  |
|   |                                       |              |                         |           |                                     | 16                  | MxLpTm Maximum loop time in 100 s of  |
| Field   | Siz                                   | ze Form      | at Comment              |           |                                     |                     | microseconds  |
| Towart ID   | 1                                     | Druto        | \$FE                    |           |                                     | 17                  | TmDgRt Minutes since last debug meter reset   |
| Target ID<br>Debug Block                                    | 1                                     |              | Value of 1              |           |                                     | 18                  | EQOvRn Event Queue overruns   |
| Length  | 1                                     | Бую          | value of 1              |           | 25                                  | 19                  | EQMICE Event Queue Malloc Errors  |
| Debug Sub Block   | k 1                                   | Byte         | Identifies subset of    | of debug  |                                     | 20                  | EvtCng Event Changed by code errors   |
| _   |                                       | •            | information.            | _         |                                     | 21<br>22            | DspRst Display Resets received on EPI bus<br>PRst Count of times EPI bus given hard reset |
| -   |                                       |              |                         |           |                                     | 23                  | PTxFl Transmission failures to EPI devices  |
|   |                                       |              |                         |           |                                     | 24                  | PrxDup Duplicate messages from EPI devices  |
| GMU to Syste  | m:                                    |              |                         |           | 30                                  | 25                  | PCpRst GMU IIC chip lost and reset by   |
| Debug Meter I   | Blocks (                              | Debug T      | vne 1)                  |           |                                     |                     | watchdogging  |
| Debug Meter Blocks (Debug Type 1)                           |                                       |              |                         | 26        | NoIRst GMU IIC chip & duart lost so |                     |   |
| The format is designed to be similar to but not the same as |                                       |              |                         |           |                                     | watchdogged         |   |
| the format for Accounting meters sent to the system in the  |                                       |              | n in the                |           | 27                                  | AdrLos Address lost |   |
| freeform messages replacing A2 messages done for Big        |                                       |              | for Big                 |           | 28                                  | AdrCng Address      |   |
|   |                                       |              | o send the current      |           | 35                                  | 20                  | changed but recovered   |
| debug meter to th   |                                       |              |                         |           |                                     | 29                  | StkTop The top of the   |
|   |                                       |              |                         |           |                                     | 30                  | stack used<br>DrtAEr error on duart   |
|   |                                       |              | sytes the actual ma     |           |                                     | 50                  | A (Network line)  |
| number of digits  | must be                               | e an ever    | ı number. Odd num       | nbers of  |                                     | 31                  | DrtBEr error on duart B   |
| digits can not be s   | supporte                              | ed. Since    | Debug meters are s      | stored in | 40                                  |                     | (game line)   |
|   |                                       |              | pers, 0 to 65535 wil    |           |                                     | 32                  | FDHErr Display  |
|   |                                       |              | rs. This will mean      |           |                                     |                     | Handler confused  |
|   |                                       |              | hs will be six BCI      |           |                                     | 33                  | PtxQUs max bytes of   |
|   | neter br                              | ock ichgi    | iis will be six DCL     | o digits, |                                     |                     | EPI tx queue used   |
| that is, 3 bytes.   |                                       |              |                         |           | 15                                  | 34                  | PrxQUs max bytes of   |
| Since it takes 5 by   | ytes for                              | each met     | er, a maximum of 4      | 4 debug   | 45                                  | 2.5                 | EPI rx queue used   |
| · · · · · · · · · · · · · · · · · · ·                       |                                       |              | form segment. Whe       | _         |                                     | 35                  | SrxQUs max bytes of   |
|   |                                       |              | ilable, the GMU m       |           |                                     | 36                  | net rx queue used GtxQUs max bytes of   |
|   |                                       |              | ngle freeform requ      |           |                                     | 50                  | game tx queue used  |
|   |                                       |              |                         |           |                                     | 37                  | GrxQUs max bytes of   |
|   |                                       |              | ystem is capable o      | or muni   | 50                                  | - *                 | game rx queue used  |
| segment freeform  | n this wi                             | III not be   | necessary.              |           |                                     | 38                  | EvMmUs max bytes of   |
|   |                                       |              |                         |           |                                     |                     | event ram used  |
|   |                                       |              |                         |           |                                     | 39                  | PTxOvfl # of times  |
| Field   | Size                                  | Format       | Comment                 |           |                                     |                     | EPI bus overflows   |
| Meter Tag   | 1                                     | Bute         | \$01-\$FF               |           | 55                                  | 40                  | PTxOffln # of EPI tx's  |
| Meter Tag<br>Meter Length                                   | 1<br>1                                | Byte<br>Byte | The length in bytes of  | the       |                                     | 4.                  | to offline devices  |
|   | •                                     | -,           | Meter field. 3 for debu |           |                                     | 41                  | MxChpTm max cheap   |
|   |                                       |              | meters.                 |           |                                     | 42                  | timers used at once<br>PRcvCksm # of EPI  |
| Meter Data  | Meter BCD, 3 The current value of the |              |                         | 74        | receive checksum errs               |                     |   |
|   | Block                                 | bytes        | meter. Filled with lead | ling      | 60                                  | 43                  | Idunno Third Base!  |
|   | Length                                |              | zeros.                  |           | 60                                  |                     |   |

The meaning of debug meters may change without notice since they are mostly useful for engineering development. The actual meanings of debug meters on any system report 65 should be reconciled to the GMU document number, version, and prototype letter.

Zero Debug Meters (Debug Type 0)

When the GMU receives a Zero Debug Meters request (type 0) it should zero the debug meters and return a application message in freeform letting the system know the meters were actually zeroed.

| Field                      | Size   | Format       | Comment            |
|----------------------------|--------|--------------|--------------------|
| Target ID<br>Meters Block  | 1<br>1 | Byte<br>Byte | \$FE<br>Value of 1 |
| Length<br>Meters Sub Block | 1      | Byte         | Value of 0         |

Event List (Debug Type 2)

When the GMU receives a Event List request (type 2) it should send the most recent hogshead events that have been processed. It should then clear its queue so that multiple requests for event lists do not cause the gmu to send duplicate events. Since a single segment freeform message is limited in size, the number of events sent will be limited. event numbers will be sent in two byte BCD format (four digits.) allowing for 100 events. Since four digits only allows for 9999 types of events, any events larger than 9999 will not be sent. This will also allow for some events to be excluded from the events sent. (Events like FreeformStart, FreeformEnd, and FreeformMessage are generated by the request for an event list and one may wish to exclude them from being sent.) The following format is used for the target block

| Field                 | Size                      | Format        | Comment   |
|-----------------------|---------------------------|---------------|---|
| Target ID             | 1                         | Byte          | \$FE  |
| Debug Block<br>Length | 1                         | Byte          | 1 to 201, odd #s only                                 |
| Debug Data Type       | 1                         | Byte          | 2   |
| Debug Data            | 1 to 100 2<br>byte blocks | 2 BYTE<br>BCD | A series of 2 byte<br>BCD (4 digits) event<br>numbers |

Debut Text (Debug Type 3)

When the GMU receives a Debug Text request (type 3) it should send the most recent debug text message that has been generated, after which the GMU should delete it from its queue to avoid sending duplicate messages. If no text message exists, the gmu will send the string "EMPTY!" The maximum length of the text message can be 222 bytes.

| 10 | Field                              | Size                   | Format       | Comment                              |
|----|------------------------------------|------------------------|--------------|--------------------------------------|
|    | Target ID<br>Debug Block<br>Length | 1<br>1                 | Byte<br>Byte | \$FE<br>7 to 222                     |
| 15 | Debug Data Type<br>Debug Data      | 1<br>7 to 222<br>bytes | Byte<br>char | 3<br>Printable chars only<br>please. |

Type Abbreviation Detail

UNIT Unsigned integer. For example, \$0105=256^1\*1+256^0\*5=261

TEXT Variable length string of printable characters BYTE Unsigned character, hexadecimal, 1 byte STRINGx String of fixed length×number of BYTEs BCD Binary Coded Decimal

. . . Message Protocols BLRS/iView . . .

Bally Live Rewards Message Interface Definitions

Bally Live Rewards Server (BLRS) communicates with iVIEW's through Web Services over http/http(s). The following Web Service methods are provided by the Bally Live Rewards Server:

| Name                  | Purpose   |
|-----------------------|---|
| registerIView         | Register's the iVIEW with BLRS  |
| getSGSDateTime        | Returns the current BLRS Date time  |
| getGlobalSettings     | Returns the global settings for Live Reward Games   |
| getAllPlayerSettings  | Returns the player settings including available games, game start rules and play point value for all the player types |
| postEventLog          | Logs the event message in to BLRS   |
| getActivePayTableSets | Returns the active pay table sets, game settings for all the games and player types                                   |
| getPayTableSet        | Returns the requested pay table set object  |
| unRegisterIView       | Un registers the iVIEW with BLRS  |
| SGS_CreateSession     | Creates the Session for request player on a specified iVIEW and also  |
|                       | returns weather the requested device is active or not.  |
| SGS_ValidatePin       | Validates the player PIN number with CMS/CMP  |
| SGS_IsPlayerLocked    | Verifies with the BLRS and returns weather the player is locked or not  |
|                       | and also returns the time in minutes, how long that player will be locked   |
| SGS_GetSessionBuckets | Returns the all player current session bucket balance values  |
| SGS_Deposit           | Deposits the requested player bucket transaction value in to the BLRS   |
| SGS_StartWithdrawal   | Initiates the withdrawal transaction with BLRS for a specified player   |
|                       | bucket transaction value in BLRS  |
| SGS_EndWithdrawal     | Closes the opened withdrawal transaction  |
| SGS_BeginGame         | Initiates the begin game transaction with BLRS  |
| SGS_EndGame           | Closes the opened game play transaction   |
| SGS_StartHandpay      | Imitates the hand pay transaction with BLRS   |
| SGS_EndHandpay        | Closes the opened Hand pay  |
| SGS_CloseSession      | Closes the opened session   |
| SGS_EGMGamePlay       | Posts the EGM activity. i.e., total coin In, total coin Out and No-of games played to the BLRS.                       |
|                       | Sames prayed to the Dires.  |

#### -continued

| Name                 | Purpose  |
|----------------------|--|
| SGS_QueryGameplayLog | Returns the game play transactions log for the requested device  |
| SGS_QueryWithdrawals | Returns the withdrawal transactions log for the requested device |
| SGS_QueryHandpayLog  | Returns the hand pay transactions log for the requested device   |

Services Specs

Return Values

10

All web services will return an object. All return objects inherit from the same base class and therefore always contain the following fields:

| Response Parameter Name | Purpose                                      |
|-------------------------|--|
| result                  | Call result: 0 - success, non-zero - failure |
| errorString             | Error description (empty if success)         |

#### Error Codes

| Error Description                          | Error Code |
|--|------------|
| GENERIC_SYSTEM_ERROR                       | -1         |
| SUCCESS                                    | 0          |
| SUCCESS_WITH_DUPLICATE_TRANSACTION         | 1          |
| INVALID_PARAMS                             | 2          |
| SESSION_ID_INVALID                         | 10         |
| SESSION_SUSPENDED                          | 11         |
| SESSION_CLOSED                             | 12         |
| SESSION_VALIDATION_FAILURE                 | 13         |
| SESSION_CLOSE_FAILURE_PENDING_TRANSACTIONS | 14         |
| INSUFFICIENT_FUNDS                         | 20         |
| INVALID_SESSSION_DEPOSIT_NUMBER            | 21         |
| INVALID_SESSSION_WITHDROWAL_NUMBER         | 22         |
| TRANSACTION_ID_INVALID                     | 23         |
| TRANSACTION_VALIDATION_FAILURE             | 24         |
| ATTEMPT_TO_ROLLBACK_COMMITED_TRANSACTION   | 25         |
| ATTEMPT_TO_COMMIT_ROLLEDBACK_TRANSACTION   | 26         |
| NON_JURISDICTION_WITHDRAWALS_ONLY          | 27         |
| JURISDICTION_WITHDRAWALS_ONLY              | 28         |
| INVALID_HANDPAY_ID                         | 40         |
| HANDPAY_VALIDATION_FAILURE                 | 41         |
| ATTEMPT_TO_COMPLETE_CANCELLED_HANDPAY      | 42         |
| ATTEMPT_TO_CANCEL_COMPLETED_HANDPAY        | 43         |
| ATTEMPT_TO_COMPLETE_COMPLETED_HANDPAY      | 44         |
| CMS_FUNCTION_FAILED                        | 70         |
| INVALID_HID                                | 80         |
| LAST_ERROR                                 | 10000      |

Web Service: registerIView

The purpose of this message is to create a unique iVIEW Id on the Live Rewards Server; if that specified iVIEW Id (ma- 50 iVIEW Id is reference purpose to identify the device and its chine address of a device) already exists in the BLRS data-

base it updates the related information with the same iVIEW Id. All the information that is stored along with the unique location.

|                           | Purpose                         | Type/Range      |
|---------------------------|---------------------------------|-----------------|
| Request Parameter<br>Name | _                               |                 |
| iviewId                   | Machine address of iVIEW device | 0-50 characters |
| casinoId                  | Unique for each casino          | 0-4 characters  |
| gameSerialNo              | Serial number of cabinet        | 0-40 characters |
| gameId                    | Manufacturer type               | 0-5 characters  |
| payTableId                | Unique Pay Table Id             | 0-6 characters  |
| basePer                   | Theoretical pay back            | 0-10 characters |
| gmuTime                   | Gmu time                        | 0-6 characters  |
| maxBet                    | Max bet for game                | 0-12 characters |
| gmuId                     | Gmu network address             | 0-32 characters |

#### -continued

|                    | Purpose   | Type/Range        |
|--------------------|---|-------------------|
| protocolVersion    | Version number of protocol                                    | 0-16 characters   |
| enableFeatures     | SAS related bit mapped field of features the game has enabled | 0-6 characters    |
| gameType           | Type of ecash game  | 0-3 characters    |
| enable             | Enable or disable Live Rewards Game messaging                 | True/False        |
| denomination       | No-of pennies in credit for game played                       | 0-12 characters   |
| totalCoinIn        | Coin in game meter in pennies                                 | 0-12 characters   |
| totalCoinOut       | Coin out game meter in pennies                                | 0-12 characters   |
| gamesPlayed        | No-of games played  | 0-12 characters   |
| assetId            | Unique identifier to the casino for the cabinet               | 0-8 characters    |
| Response Parameter | •   |                   |
| Name               | _   |                   |
| isActive           | iVIEW device is active or not in the BLRS                     | True/False        |
| result             | Call result: 0 - success, non-zero - failure                  | Int               |
| errorString        | Error description   | 0-1000 characters |

Web Service: getSGSDateTime

The purpose of this message is to sync the iVIEW device clock with the Live Rewards Server clock. This message returns the current Live Rewards Server date and time.

|                           | Purpose   | Type/Range           |
|---------------------------|---|----------------------|
| Request Parameter<br>Name | _   |                      |
| None                      |   |                      |
| Response Parameter        |   |                      |
| Name                      | _   |                      |
| result                    | Call result: 0 - success,<br>non-zero - failure | Int                  |
| errorString               | Error description                               | 0-1000 characters    |
| CurrentDateTime           | Current Live Rewards Server date and time       | Date and time object |

Web Service: getGlobalSettings

The purpose of this message is to control the Live Rewards games/console on iVIEW depending on the settings defined on the server side.

It returns the Global settings (these settings are common for all the iVIEW's) defined on the Live Rewards Server

Web Service: getAllPlayersSettings

It returns the player settings including accrual rate, Live Rewards game start threshold counter and Live Rewards game start rules for all the player types (ex: Gold, Silver, etc.) <sup>25</sup> defined on the BLRS

|    |  | Purpose   | Type/Range           |
|----|--|---|----------------------|
| 30 | Request Parameter<br>Name  | _   |                      |
|    | IviewId<br>Response Parameter<br>Name                              | Machine address of iVIEW device   | 0-50 characters      |
| 35 | Player Settings<br>Each Player Type<br>Settings Object<br>contains | Array of player Setting objects   |                      |
| 40 | Player Type<br>Accrual Rate<br>System Game Start<br>Threshold      | Player type Id (Gold, Silver, etc) Play points accrual percentage Live Rewards game start counter | Int<br>Double<br>Int |

|                                       | Purpose  | Type/Range        |
|---------------------------------------|--|-------------------|
| Request Parameter<br>Name             | _  |                   |
| IviewId<br>Response Parameter<br>Name | Machine address of iVIEW device  | 0-50 characters   |
| Resync Interval                       | Resync interval rate in mins for iVIEW to request the global settings, active pay table sets and player type settings from BLRS.                 | Double            |
| System game mode volume               | Live Rewards game volume in percentage   | Int               |
| Attract mode volume<br>Auto Play      | iVIEW attract mode volume in percentage<br>True - auto play enabled, False - auto play<br>disabled   | Int<br>True/False |
| *Tilt Time  *Auto Remove Play points  | Time in mins to tilt the system games Time in minutes to clear the not used Live Rewards game play points on the device. 0 = this feature is OFF | Int<br>Int        |
| Jurisdictional Limit                  | Array of Prize Type Limit objects. Each object contains prize type Id and limit number   | Double            |

<sup>\*</sup>Means not used

|                   | Purpose                            | Type/Range      |  |
|-------------------|------------------------------------|-----------------|--|
| System Game Start | Array of Rules. Each Rule contains |                 |  |
| Rules             | Rule Id                            | Int             |  |
|                   | Rule Description                   | 0-20 characters |  |
|                   | Occurrence counter                 | Int             |  |
|                   | Increment Value                    | Int             |  |
| Available Games   | Array of Game objects.             |                 |  |
|                   | Each object contains               |                 |  |
|                   | Game ID                            | 0-4 characters  |  |
|                   | Game Name                          | 0-50 characters |  |

## Web Service: postEventLog

The purpose of this message is to store the logs (error logs or events or information) in to the Live Rewards server database occurred in the iVIEW's, example tilt messages on iVIEW's.

|             | Purpose                                      | Type/Range        |
|-------------|--|-------------------|
| Request     |  |                   |
| Parameter   |  |                   |
| Name        | _  |                   |
| eventType   | Type of the event (0-Error, 1-Info, 2-debug) | 0-10 characters   |
| iviewId     | Machine address of a iVIEW device            | 0-50 characters   |
| assetId     | Asset number assigned to this                | 0-8 characters    |
|             | device or slot/base game                     |                   |
| errCode     | Error code defined by the iVIEW if any       | 0-20 characters   |
| data        | Information/message about the event          | 0-200 characters  |
| Response    |  |                   |
| Parameter   |  |                   |
| Name        | _  |                   |
| result      | Call result: 0 - success, non-zero - failure | Int               |
| errorString | Error description                            | 0-1000 characters |

#### Web Service: unRegisterIView

The purpose of this message is to unregistered the registered iVIEW with the BLRS.

|                           | Purpose                           | Type/Range        |
|---------------------------|-----------------------------------|-------------------|
| Request Parameter<br>Name | <del>-</del>                      |                   |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters   |
| Response Parameter        |                                   |                   |
| Name                      | _                                 |                   |
| result                    | Call result: 0 - success,         | Int               |
| errorString               | Error description                 | 0-1000 characters |
|                           |                                   |                   |

## Web Service: getActivePayTableSets

It returns all the active pay table sets, game settings for the Live Rewards games by player types (ex: Gold, Silver, etc.) defined on the BLRS

|                           | Purpose                           | Type/Range      |
|---------------------------|-----------------------------------|-----------------|
| Request Parameter<br>Name | _                                 |                 |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters |

|    |                            | Purpose                                      | Type/Range        |
|----|----------------------------|--|-------------------|
| 5  | Response Parameter<br>Name | _  |                   |
|    | PTabSets<br>Result         | All pay table sets Call result: 0 - success, | XML Node<br>Int   |
| 10 | errorString                | non-zero - failure<br>Error description      | 0-1000 characters |

Web Service: getPayTableSet

It returns the requested pay table set object from BLRS.

|   | Purpose  | Type/Range        |
|---|--|-------------------|
| Request Parameter<br>Name                   | _  |                   |
| PayTableSetId<br>Response Parameter<br>Name | Pay table set Id   | Int               |
| PTabSets<br>result                          | pay table set<br>Call result: 0 - success,<br>non-zero - failure | XML Node<br>Int   |
| errorString                                 | Error description  | 0-1000 characters |

#### Web Service: SGS\_CreateSession

It creates the Session for requested player on a specified iVIEW. It reserves the buckets for that player in this session.

|   |   | Purpose   | Type/Range        |
|---|---|---|-------------------|
| 5 | Request Parameter<br>Name               | _   |                   |
|   | iviewId                                 | Machine address of a iVIEW device                   | 0-50 characters   |
|   | plrCardNo<br>Response Parameter<br>Name | Player Card Number                                  | 0-20 characters   |
| ) |   |   |                   |
|   | sessionId                               | A unique session Id                                 | Int               |
|   | Buckets                                 | An array of buckets.                                |                   |
|   |   | Each bucket contains                                |                   |
|   |   | prizeTypeId   | Int               |
|   |   | jurisdiction  | True/False        |
|   |   | TRX_Value   | Double            |
|   |   | balance   | Double            |
|   | PlayerData                              | Player Data object contains                         |                   |
|   |   | plrCardNo   | 0-20 characters   |
|   |   | playerType  | Int               |
|   |   | banned  | True/False        |
| 1 | IsDeviceActive                          | Weather the requested iVIEW device is active or not | True/False        |
|   | result                                  | Call result: 0 - success,<br>non-zero - failure     | Int               |
|   | errorString                             | Error description                                   | 0-1000 characters |
|   |   |   |                   |

#### Web Service: SGS\_ValidatePin

60

65

It verifies the Player Pin is correct or not through CMS/CMP servers.

| ı |                           | Purpose                           | Type/Range      |
|---|---------------------------|-----------------------------------|-----------------|
|   | Request Parameter<br>Name | _                                 |                 |
|   | iviewId                   | Machine address of a iVIEW device | 0-50 characters |
|   | plrCardNo                 | Player Card Number                | 0-20 characters |
|   | Pin                       | Pin number                        | UNKNOWN         |

## -continued

|                            | Purpose   | Type/Range        |
|----------------------------|---|-------------------|
| Response Parameter<br>Name | _   |                   |
| pinStatus                  | Valid or Not                                    | True/False        |
| isLocked                   | Locked or Not                                   | True/False        |
| lockTimeinMins             | Lock time in minutes                            | Int               |
| result                     | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString                | Error description                               | 0-1000 characters |

#### Web Service: SGS\_IsPlayerLocked

It checks weather the requested player is locked or not in BLRS. If the player is locked it returns lock time in minutes.

|   | Purpose   | Type/Range        |
|---|---|-------------------|
| Request Parameter<br>Name               | _   |                   |
| iviewId                                 | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo<br>Response Parameter<br>Name | Player Card Number                              | 0-20 characters   |
| isLocked                                | Locked or Not                                   | True/False        |
| lockTimeinMins                          | Lock time in minutes                            | Int               |
| result                                  | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString                             | Error description                               | 0-1000 characters |

## Web Service: SGS\_GetSessionBuckets

It returns the requested player Session Bucket values from reserved buckets (session buckets).

|                           | Purpose   | Type/Range        |
|---------------------------|---|-------------------|
| Request Parameter<br>Name | <del>-</del>                                    |                   |
| iviewId                   | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo                 | Player Card Number                              | 0-20 characters   |
| sessionId                 | Session Number                                  | Int               |
| Response Parameter        |   |                   |
| Name                      | _   |                   |
| Buckets                   | An array of buckets. Each bucket contains       |                   |
|                           | prizeTypeId                                     | Int               |
|                           | jurisdiction                                    | True/False        |
|                           | TRX Value                                       | Double            |
|                           | Balance   | Double            |
| result                    | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString               | Error description                               | 0-1000 characters |

## Web Service: SGS\_Deposit

It deposits the requested buckets transaction values in to player's session buckets and it returns the current balances.

|                           |                                   |                 | 60 |
|---------------------------|-----------------------------------|-----------------|----|
|                           | Purpose                           | Type/Range      |    |
| Request Parameter<br>Name | _                                 |                 | '  |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters | 65 |

## -continued

|    |                          | Purpose  | Type/Range             |
|----|--------------------------|--|------------------------|
| 5  | plrCardNo<br>sessionId   | Player Card Number<br>Session Number                             | 0-20 characters<br>Int |
|    | depositNumber<br>Buckets | Deposit counter number An array of buckets. Each bucket contains | Int                    |
|    |                          | prizeTypeId  | Int                    |
|    |                          | jurisdiction   | True/False             |
| 10 |                          | TRX_Value  | Double                 |
|    |                          | balance  | Double                 |
|    | Response Parameter Name  | _  |                        |
|    | Buckets                  | An array of buckets. Each  |                        |
| 15 |                          | bucket contains  |                        |
|    |                          | prizeTypeId  | Int                    |
|    |                          | jurisdiction   | True/False             |
|    |                          | TRX_Value  | Double                 |
|    |                          | balance  | Double                 |
| 20 | result                   | Call result: 0 - success,<br>non-zero - failure                  | Int                    |
| 20 | errorString              | Error description  | 0-1000 characters      |
|    | errorsumg                | Error description  | 0-1000 characters      |

## Web Service: SGS\_StartWithdrawal

Initiates the withdrawal transaction for requested bucket and returns the BLRS Transaction Number to store in SDS Logs.

|   | Purpose   | Type/Range        |
|---|---|-------------------|
| Request Parameter<br>Name                       | _   |                   |
| iviewId   | Machine address of a iVIEW device               | 0-50 characters   |
| plrCardNo                                       | Player Card Number                              | 0-20 characters   |
| sessionId                                       | Session Number                                  | Int               |
| withdrawalNumber                                | Withdrawal counter number                       | Int               |
| Bucket  | Bucket contains                                 |                   |
|   | prizeTypeId                                     | Int               |
|   | jurisdiction                                    | True/False        |
|   | TRX_Value                                       | Double            |
|   | balance   | Double            |
| $\frac{\text{Response Parameter}}{\text{Name}}$ | _   |                   |
| SGS_TransactionID                               | BLRS Transaction Number to store in the SDS     | Int               |
| result  | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString                                     | Error description                               | 0-1000 characters |
| Buckets   | An array of buckets. Each bucket contains       |                   |
|   | prizeTypeId                                     | Int               |
|   | jurisdiction                                    | True/False        |
|   | TRX_Value                                       | Double            |
|   | balance   | Double            |

#### Web Service: SGS\_EndWithdrawal

It completes the withdrawal transaction for the requested BLRS Transaction Number and amount. If the amount is different than the Start amount, balance will deposited back to player account.

|                           | Purpose                           | Type/Range      |
|---------------------------|-----------------------------------|-----------------|
| Request Parameter<br>Name | _                                 |                 |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters |
| plrCardNo                 | Player Card Number                | 0-20 characters |

Purpose

Type/Range

## -continued

|                    | Purpose                     | Type/Range        |    |
|--------------------|-----------------------------|-------------------|----|
| sessionId          | Session Number              | Int               | 5  |
| SGS_TransactionID  | BLRS Transaction Number     | Int               |    |
| isCommit           | Commit or Rollback          | True/False        |    |
| TRX_Value          | Transaction Value to commit | Double            |    |
|                    | or rollback                 |                   | 10 |
| Response Parameter |                             |                   |    |
| Name               | _                           |                   |    |
| SGS_TransactionID  | BLRS Transaction Number to  | Int               | 15 |
|                    | store in the SDS            |                   |    |
| result             | Call result: 0 - success,   | Int               |    |
|                    | non-zero - failure          |                   |    |
| errorString        | Error description           | 0-1000 characters | 20 |
|                    |                             |                   |    |

## Web Service: SGS\_BeginGame

Creates the new Game play history Id (HID) and debits the requested buckets transaction values from player session buckets.

|                           | Purpose                       | Type/Range        | 30 |
|---------------------------|-------------------------------|-------------------|----|
| Request Parameter<br>Name | _                             |                   | •  |
| GamePlay                  | Gameplay object contains      | _                 |    |
|                           | GID                           | 0-4 characters    | 35 |
|                           | IviewId                       | 0-50 characters   |    |
|                           | plrCardNo                     | 0-20 characters   |    |
|                           | sessionId                     | Int               |    |
|                           | casinoId                      | 0-4 characters    |    |
|                           | gmuId                         | 0-32 characters   |    |
|                           | assetNo                       | 0-8 characters    | 40 |
|                           | startDateTime                 | Date time         |    |
|                           | payTabSetId                   | Int               |    |
|                           | payTabId                      | Int               |    |
|                           | gameSettingsId                | Int               |    |
|                           | Array of Buckets. each bucket |                   |    |
|                           | contains                      |                   | 45 |
|                           |                               | _                 |    |
|                           | prizeTypeId                   | Int               |    |
|                           | jurisdiction                  | True/False        |    |
|                           | TRX_Value                     | Double            |    |
|                           | balance                       | Double            |    |
| Response Parameter        |                               | 20001             | 50 |
| Name                      |                               |                   |    |
| - turite                  | _                             |                   |    |
| HID                       | Game play History Id          | Int               |    |
| Buckets                   | An array of buckets. Each     |                   |    |
|                           | bucket contains               |                   | 55 |
|                           | prizeTypeId                   | Int               | 33 |
|                           | jurisdiction                  | True/False        |    |
|                           | TRX_Value                     | Double            |    |
|                           | balance                       | Double            |    |
| Result                    | Call result: 0 - success,     | Int               |    |
| Result                    | non-zero - failure            | IIIt              | -  |
| errorString               | Error description             | 0-1000 characters | 60 |
| citoroning                | Life description              | 0-1000 CHARACICIS |    |

#### Web Service: SGS\_EndGame

It closes the Game transaction for the specified HID and  $\,^6$  stores the bucket transaction values in to player session buckets if any WIN.

| Request<br>Parameter<br>Name | -  |                   |
|------------------------------|--|-------------------|
| GamePlay                     | Gameplay object contains                     | _                 |
|                              | HID  | Int               |
|                              | IviewId                                      | 0-50 characters   |
|                              | plrCardNo                                    | 0-20 characters   |
|                              | sessionId                                    | Int               |
|                              | endDateTime                                  | Date time         |
|                              | payLineId                                    | Int               |
|                              | score  | Int               |
|                              | Array of Buckets. each bucket contains       |                   |
|                              |  | _                 |
|                              | prizeTypeId                                  | Int               |
|                              | jurisdiction                                 | True/False        |
|                              | TRX_Value                                    | Double            |
|                              | balance                                      | Double            |
| Response                     |  |                   |
| Parameter                    |  |                   |
| Name                         | _  |                   |
| HID                          | Game play History Id                         |                   |
| Buckets                      | An array of buckets. Each bucket contains    |                   |
| Duckets                      | prizeTypeId                                  | Int               |
|                              | jurisdiction                                 | True/False        |
|                              | TRX_Value                                    | Double            |
|                              | balance                                      | Double            |
| magnal+                      |  |                   |
| result                       | Call result: 0 - success, non-zero - failure | Int               |
| errorString                  | Error description                            | 0-1000 characters |
|                              |  |                   |

### Web Service: SGS\_StartHandpay

Initiates the new Hand pay transaction and returns the Hand pay ID with the bucket values to send a message to cage.

|                              | Purpose  | Type/Range      |
|------------------------------|--|-----------------|
| Request<br>Parameter<br>Name |  |                 |
| - turne                      | _  |                 |
| HPType                       | Hand pay Type (Jurisdiction or player initiated) | Int             |
| SessionId                    | Player Current Session Id                        | Int             |
| IviewId                      | Machine address of a iVIEW device                | 0-50 characters |
| CasinoId                     | Property Id                                      | 0-4 characters  |
| GmuId                        | Machine address of a device                      | 0-32 characters |
| AssetNo                      | Account number of a device                       | 0-8 characters  |
| PLRCardNo                    | Player card number                               | 0-20 characters |
| Buckets                      | Array of Buckets. each bucket contains           |                 |
|                              | prizeTypeId                                      | Int             |
|                              | jurisdiction                                     | True/False      |
|                              | TRX_Value  | Double          |
|                              | balance  | Double          |
| Response                     |  |                 |
| Parameter                    |  |                 |
| Name                         | _  |                 |
| HPID                         | Hand pay ID                                      | Int             |
| Result                       | Call result: 0 - success, non-zero - failure     | Int             |
| errorString                  | Error description                                | 0-1000 characte |

15

20

25

30

35

45

163

Web Service: SGS\_EndHandpay

It closes the Hand pay transaction for the request hand pay  $\operatorname{ID}\nolimits.$ 

|                           | Purpose   | Type/Range        |
|---------------------------|---|-------------------|
| Request Parameter<br>Name | _   |                   |
| IviewId                   | Machine address of a iVIEW device               | 0-50 characters   |
| Player Card Number        | Player card number                              | 0-20 characters   |
| SessionId                 | Player Current Session Id                       | Int               |
| HandpayId                 | Hand pay Id                                     | Int               |
| isCommit                  | Commit the transaction or not                   | True/False        |
| Completed By              | Employee card number                            | 0-20 characters   |
| Response Parameter        |   |                   |
| Name                      | _   |                   |
| HPID                      | Hand pay ID                                     |                   |
| Result                    | Call result: 0 - success,<br>non-zero - failure | 0 or non-negative |
| errorString               | Error description                               | 0-1000 characters |

## Web Service: SGS\_CloseSession

Closes the requested player session on specified iVIEW and moves the player session buckets in to player main account

|                           | Purpose                           | Type/Range        |
|---------------------------|-----------------------------------|-------------------|
| Request Parameter<br>Name | _                                 |                   |
| iviewId                   | Machine address of a iVIEW device | 0-50 characters   |
| plrCardNo                 | Player Card Number                | 0-20 characters   |
| sessionId                 | Session Number                    | Int               |
| recoveryYN                | Recovery session or normal        | True/False        |
| Response Parameter        |                                   |                   |
| Name                      | _                                 |                   |
| result                    | Call result: 0 - success,         | 0 or 1            |
| errorString               | Error description                 | 0-1000 characters |

#### Web Service: SGS\_EGMGamePlay

It posts the EGM game play activity data in to the BLRS. i.e., total coin in, total coin out, # of games played. This data will be posted on every heart beat call to the server, before create session and before close session.

|   | Purpose   | Type/Range   |                |
|---|---|--|----------------|
| Request<br>Parameter<br>Name  | _   |  | <b>-</b><br>5: |
| iviewId<br>assetId<br>sessionId<br>totCoinIn<br>totCoinOut<br>gamesPlayed<br>Status | Machine address of a iVIEW device<br>Account number of a device<br>Session Number<br>Total coin in<br>Total coin out<br>No of games played<br>Status of the device at the time of | 0-50 characters 0-20 characters Int Int Int Int O = None             | 60             |
| Status  | posting data  | 1 = Session Open<br>2 = Session in<br>progress<br>3 = Session Closed | 6:             |

## 164

#### -continued

|                               | Purpose                                      | Type/Range        |
|-------------------------------|--|-------------------|
| Response<br>Parameter<br>Name | _  |                   |
| result                        | Call result: 0 - success, non-zero - failure | 0 or 1            |
| errorString                   | Error description                            | 0-1000 characters |

## Web Service: SGS\_QueryWithdrawals

It returns the withdrawal transaction Log for the requested  $\mathrm{i}\mathrm{V}\mathrm{I}\mathrm{E}\mathrm{W}$  and prize type.

|   |  | Purpose   | Type/Range  |
|---|--|---|---|
|   | Request Parameter<br>Name                              | _   |   |
|   | iviewId  | Machine address of a iVIEW device   | 0-50 characters   |
|   | prizeType<br>noofRecords<br>Response Parameter<br>Name | Prize type<br>No-Of records to return   | Int<br>Int  |
| ı | Withdrawl_Report                                       | Array of Withdrawal_Report object. Each Withdrawal_Report contains transd sessionId session_TrxId plrCardNo sourceId tranDateTime prizeValue jurisdiction Call result: 0 - success, | Int Int Int 0-20 characters 0-50 characters Date time Double True/False Int |
|   | errorString  | non-zero - failure<br>Error description   | 0-1000 characters   |

## Web Service: SGS\_QueryGamePlayLog

It returns the Game play history transactions for the requested  $\ensuremath{\mathrm{iVIEW}}$  .

|   | Purpose   | Type/Range  |
|---|---|---|
| Request Parameter<br>Name                 | _   |   |
| iviewId                                   | Machine address of a iVIEW device   | 0-50 characters   |
| noofRecords<br>Response Parameter<br>Name | No-Of records to return   | Int   |
| GamePlay_Report                           | Array of Gameplay_Report object. Each Gameplay_Report contains HID GID IviewId plrCardNo sessionId casinoId gmuId assetNo startDateTime endyTabSetId payTabId | Int Int 0-50 characters 0-20 characters Int 0-4 characters 0-32 characters 0-8 characters Date time Date time Int Int |

25

|             | Purpose   | Type/Range        |
|-------------|---|-------------------|
|             | gameSettingsId                                  | Int               |
|             | score   | Int               |
|             | buckets Spent                                   | Bucket values     |
|             | buckets Won                                     | Bucket values     |
| result      | Call result: 0 - success,<br>non-zero - failure | Int               |
| errorString | Error description                               | 0-1000 characters |

Web Service: SGS\_QueryHandpayLog

It returns the hand pay transactions for the requested iVIEW.

|   | Purpose   | Type/Range  |
|---|---|---|
| Request Parameter<br>Name                 | _   |   |
| iVIEW Id                                  | Machine address of a iVIEW device   | 0-50 characters   |
| noofRecords<br>Response Parameter<br>Name | No-Of records to return   | Int   |
| HandPay_Report                            | Array of HandPay_Report object. Each HandPay_Report contains HPID HPDesc IviewId plrCardNo sessionId casinoId gmuId assetNo createdDateTime completedDateTime completedBy buckets | Int 0-50 characters 0-50 characters 0-20 characters Int 0-4 characters 0-32 characters 0-8 characters Date time Date time 0-20 characters Bucket values |
| result                                    | Call result: 0 - success,<br>non-zero - failure   | Int   |
| errorString                               | Error description   | 0-1000 characters   |

While the example embodiments have been described with relation to a gaming environment, it will be appreciated that the above concepts can also be used in various non-gaming environments. For example, such rewards can be used in conjunction with purchasing products, e.g., gasoline or groceries, associated with vending machines, used with mobile devices or any other form of electronic communications. Accordingly, the disclosure should not be limited strictly to gaming.

The foregoing description, for purposes of explanation, uses specific nomenclature and formula to provide a thorough understanding of the invention. It should be apparent to those of skill in the art that the specific details are not required in order to practice the invention. The embodiments have been chosen and described to best explain the principles of the invention and its practical application, thereby enabling others of skill in the art to utilize the invention, and various embodiments with various modifications as are suited to the

166

particular use contemplated. Thus, the foregoing disclosure is not intended to be exhaustive or to limit the invention to the precise forms disclosed, and those of skill in the art recognize that many modifications and variations are possible in view of the above teachings.

The invention claimed is:

1. A method comprising:

receiving player identification at a first gaming machine from a player rewards card;

verifying player identification data of the player rewards card with an identification input of a player;

playing a game by the player at the first gaming machine; accumulating a balance above a first threshold amount;

paying out a first portion of the balance equal to or below the first threshold amount to the player in response to a request by the player;

deferring payout of a second portion of the balance above the first threshold amount;

transferring the second portion of the balance to a second gaming machine;

playing a game by the player at the second gaming machine using the second portion of the balance;

providing tax documentation comprising one or more tax forms completed by the player as a condition to paying out the second portion of the balance;

receiving a casino employee identification at the first or second gaming machine; and

paying out the second portion of the balance subsequent to providing tax documentation and receiving the casino employee identification.

- 2. A method as recited in claim 1 wherein the casino employee identification is provided at the first gaming machine.
- 3. A method as recited in claim 1 further comprising trans-35 ferring the second portion of the balance to a server.
  - **4**. A method as recited in claim **1** further comprising paying out the second portion of the balance responsive to a casino employee identification provided at the second gaming machine.
  - 5. A method as recited in claim 3 further comprising transferring the second portion of the balance from the server to a cage machine.
  - **6**. A method as recited in claim **5** wherein the casino employee identification is provided at the cage machine.
  - 7. A method as recited in claim 3 wherein the server is a first server having a slot accounting system and the second portion of the balance is a progressive bonus.
- **8**. A method as recited in claim **3** wherein the server is a second server having a rewards system and the second portion of the balance is a rewards bonus.
  - **9**. A method as recited in claim **1** wherein the first threshold amount is an amount determined based on tax regulations.
  - 10. A method as recited in claim 1 wherein the first threshold amount is an amount determined based on total bonuses.
  - 11. A method as recited in claim 3 wherein verifying player identification data includes submitting player identification data and the input of the player to the server.

\* \* \* \* \*